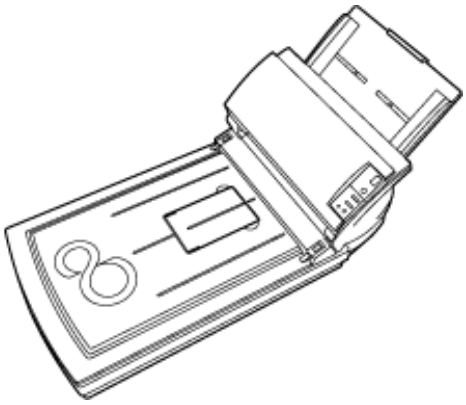
fi-5120C / fi-5220C Image Scanner Operator Guide

PREFACE | CHAPTER 1 | CHAPTER 2 | CHAPTER 3 | CHAPTER 4
CHAPTER 5 | CHAPTER 6 | CHAPTER 7 | CHAPTER 8 | APPENDIX

TROUBLE SHOOTING
CONTENTS MAP

fi-5120C / fi-5220C Image Scanner Operator Guide P3PC-1322-03ENZ2

Next



All Rights Reserved Copyright 2006 © PFULIMITED

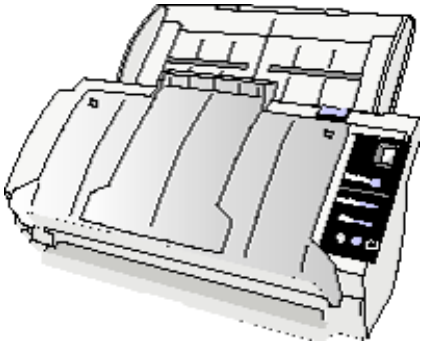
fi-5120C / fi-5220C Image Scanner Operator Guide

INTRODUCTION

Prev Next

Thank you for purchasing the fi-5120C / fi-5220C Duplex Color Scanner product.
This document describes how to handle fi-5120C / fi-5220C Duplex Color and basic operation methods. Before you start using fi-5120C / fi-5220C Duplex Color be sure to thoroughly read this manual to ensure correct use.

CONTENTS



- Copying of the contents of this manual in whole or in part and copying of the scanner application is forbidden under the copyright law.
- The contents of this manual are subject to change without notice.
- PFU LIMITED. is not liable whatsoever for any damages resulting from use of this scanner and procedures described in this manual, profit due to defects, and any claims by a third party.

All Rights Reserved Copyright 2006 © PFULIMITED

Regulatory Information (1)

FCC Declaration

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is located.
- Consult your dealer or an experienced radio/TV technician.

FCC warning:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

ATTENTION

The use of a shielded interface cable is required to comply with the Class B limits of Part 15 of FCC rules. The length of the AC cable must be 2 meters (6.6 feet) or less.

Canadian DOC Regulations

This digital apparatus does not exceed the Class B limit for radio noise emissions from digital apparatus set out in the Radio interference Regulations of the Canadian Department of Communications.
This Class B digital apparatus complies with Canadian ICES-003.s
Le présent appareil numérique n'émet pas de parasites radioélectriques dépassant les limites applicables aux appareils numériques de la classe B et prescrites dans le Règlement sur le brouillage radioélectrique dictées par le Ministère des Communications du Canada.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Bescheinigung des Herstellers / Importeurs

Für den fi-5120C/fi-5220C wird folgendes bescheinigt:

- In Übereinsstimmung mit den Bestimmungen der EN45014(CE) funkentstört
- Maschinenlärminformationsverordnung 3. GPSGV: Der höchste Schalldruckpegel beträgt 70 dB (A) oder weniger, gemäß EN ISO 7779.

All Rights Reserved Copyright 2006 © PFULIMITED

International ENERGY STAR Program

As an ENERGY STAR Partner, PFU LIMITED has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

The International ENERGY STAR Office Equipment Program is an international program that promotes energy saving through the penetration of energy efficient computers and other office equipment. The program backs the development and dissemination of products with functions that effectively reduce energy consumption. It is an open system in which business proprietors can participate voluntarily. The targeted products are office equipment such as computers, monitors, printers, facsimiles, copiers, scanners, and multifunction devices.Their standards and logos are uniform among participating nations.

Use in High-safety Applications

This product has been designed and manufactured on the assumption that it will be used in office, personal, domestic, regular industrial, and general-purpose applications. It has not been designed and manufactured for use in applications (simply called "high-safety applications" from here on) that directly involve danger to life and health when a high degree of safety is required, for example, in the control of nuclear reactions at nuclear power facilities, automatic flight control of aircraft, air traffic control, operation control in mass-transport systems, medical equipment for sustaining life, and missile firing control in weapons systems, and when provisionally the safety in question is not ensured. The user should use this product with adopting measures for ensuring safety in such high-safety applications. PFU LIMITED assumes no liability whatsoever for damages arising from use of this product by the user in high-safety applications, and for any claims or compensation for damages by the user or a third party.

About the Use of Mercury

Hg Lamp(s) inside this product contain mercury and must be recycled or disposed of according to local, state, or federal laws.

To avoid unexpected injury, read the following carefully.
Doing the following actions may result in serious personal injuries:

- Do not put the substance contained in the lamp in your mouth as it has mercury.
- Do not incinerate, crush, or shred the lamps or scanner parts.
- Do not breathe the chemical liquid contained in the scanner lamps.

All Rights Reserved Copyright 2006 © PFULIMITED

Trademarks

Microsoft, Windows, and Windows NT are registered trademarks of Microsoft Corporation in the United States and/or other countries.
ISIS and QuickScan are trademarks or registered trademarks of EMC Corporation in the United States.
Adobe, the Adobe logo, and Acrobat are either registered trademarks of Adobe Systems Incorporated in the United States and/or other countries.
Other product names are the trademarks or registered trademarks of the respective companies.

How Trademarks Are Indicated In This Manual

References to operating systems (OS) and applications are indicated as follows:

Windows 95	Microsoft® Windows® 95 operating system
Windows 98	Microsoft® Windows® 98 operating system
Windows Me	Microsoft® Windows® Millennium Edition operating system
Windows 2000	Microsoft® Windows® 2000 Professional operating system
Windows XP	Microsoft® Windows® XP Professional operating system Microsoft® Windows® XP Home Edition operating system
Windows NT 4.0	Microsoft® Windows NT® Server operating system Version 4.0 Microsoft® Windows NT® Workstation operating system Version 4.0

Where there is no distinction between the different versions of the above operating system, the general term "Windows" is used.

Adobe Acrobat	Adobe® Acrobat ®

Where there is no distinction between the different versions of the above application, the general term "Adobe Acrobat" is used.

The version of Adobe Acrobat provided with this product may change without notice. If the instructions described in this manual differ from the actual displayed screen, refer to Acrobat's Help.

Manufacturer

PFU LIMITED
International Sales Dept., Imaging Bussines Division, Products Group
Solid Square East Tower, 580 Horikawa-cho, Saiwai-ku, Kawasaki-shi Kanagawa 212-8563, Japan
Phone: (81-44) 540-4538

All Rights Reserved, Copyright©PFU LIMITED 2006

All Rights Reserved Copyright 2006 © PFULIMITED

Note, Liability

Prev Next

BEFORE USING THIS PRODUCT, PLEASE READ THIS MANUAL CAREFULLY. IF THIS PRODUCT IS NOT USED CORRECTLY, UNEXPECTED INJURY CAN OCCUR TO USERS OR BYSTANDERS.

Keep this manual in a safe place so that it can be easily referred to during use of this product.

While all efforts have been made to ensure the accuracy of all information in this manual, PFU assumes no liability to any party for any damage caused by errors or omissions or by statements of any kind in this manual, its updates or supplements, whether such errors are omissions or statements resulting from negligence, accidents, or any other cause. PFU further assumes no liability arising from the application or use of any product or system described herein; nor any liability for incidental or consequential damages arising from the use of this manual. PFU disclaims all warranties regarding the information contained herein, whether expressed, implied, or statutory.

All Rights Reserved Copyright 2006 © PFULIMITED

fi-5120C / fi-5220C Image Scanner Operator Guide

Safety Precautions

This manual describes important details for ensuring the safe and correct use of this product. Thoroughly read this manual before you start to use this product. In particular, be sure to read and fully understand the Safety Precautions described in this manual before you use this product.
Also, store this manual in a safe place so that it can be easily referred to during use of this product.

Warning Indications Used In This Manual

WARNING

This indication alerts operators to an operation that, if not strictly observed, may result in severe injury or death.

CAUTION

This indication alerts operators to an operation that, if not strictly observed, may result in safety hazards to personnel or damage to equipment.

Symbols Used In This Manual

This manual uses the following symbols in the explanations in addition to the warning indications.

This symbol alerts operators to particularly important information. Be sure to read this information.

This symbol alerts operators to helpful advice regarding operation.

A TRIANGLE symbol indicates that special care and attention is required.
The drawing inside the triangle shows the specific caution.

A CIRCLE with a diagonal line inside shows action which users may not perform.
The drawing inside or under the circle shows the specific action that is not allowed.

Outline characters on a colored background show instructions users should follow.
It may also include the drawing that shows the specific instruction.

All Rights Reserved Copyright 2006 © PFULIMITED

fi-5120C / fi-5220C Image Scanner Operator Guide

Screen Examples In This Manual

The screen examples in this manual are subject to change without notice in the interest of product improvement. If the actual displayed screen differs from the screen examples in this manual, operate by following the actual displayed screen while referring to the User's Manual of the scanner application you are using. The screenshots in this manual were captured from the FUJITSU TWAIN32 scanner driver, ScandAll 21 Image Capturing Utility Software, FUJITSU ISIS scanner driver, QuickScan? image capturing software and AdobeR AcrobatR.

Warning Label

The following picture shows the warning label used in this scanner.

High Temperature

The glass surface inside the ADF becomes hot during the operation. Be careful not to touch the glass surface inside the ADF.

ATTENTION

Do NOT remove from the scanner, stain or scratch the warning labels.

About Maintenance

The user must not perform repairs on this scanner.
Contact the store where you purchased the scanner or an authorized FUJITSU Image Scanner service provider to have repairs done on this product.

All Rights Reserved Copyright 2006 © PFULIMITED

Safety Precautions (1)

WARNING

Do not damage the AC cable.

A damaged AC cable may cause fire or electric shock. Do not place heavy objects on AC cables, or pull, bend, twist, heat, damage or modify AC cables.
Do not use damaged AC cables or power plugs, or install any cables or power plugs to loose wall sockets.

Use only specified AC cables and connector cables.

Use only specified AC cables and connector cables. Failure to use the correct cables might cause electric shock and/or equipment failure.
Please do not use the AC cable provided with this scanner for other devices, since this might cause equipment failure and other troubles or an electric shock.

Use this scanner only at the indicated power voltage. Do not connect to multiple-power strips.

Use this scanner only at the indicated power voltage and current. Improper power voltage and current might cause fire or electric shock. Do not connect to multiple-power strips.

Do not touch the AC cable with wet hands.

Do not touch the power plug with wet hands. Doing so can cause electric shock.

Wipe any dust from the power plug.

Wipe off any dust from metal parts on the power plug or metal fittings with a soft, dry cloth. Accumulated dust can cause fire or electric shock.

Do not install the device in locations that has oil smoke, steam, humidity, and dust.

Do not install the scanner in locations subject to oil smoke, steam, humidity, and dust. Doing so might cause a fire or electric shock.

All Rights Reserved Copyright 2006 © PFULIMITED

Safety Precautions (2)

WARNING

Turn the scanner OFF if it is damaged.

If the scanner is damaged for any reason, turn the scanner off and unplug the power cable. Contact the store where you purchased the scanner.

Do not use the scanner if there is a strange odor.

If you detect heat coming from the device or detect other problems such as smoke, strange smells or noises, immediately turn off the scanner and disconnect its power plug. Make sure that any smoke coming from it has stopped, before contacting the store where you bought the scanner or an authorized FUJITSU scanner service provider.

Do not put liquids inside the scanner.

Do not insert or drop metal objects in to the scanner. Do not scan wet documents or documents with paper clips or staples. Do not splash or allow the scanner to get wet.

If foreign objects (water, small metal objects, liquids, etc.) get inside the scanner, immediately turn off the scanner and disconnect the power plug from the power outlet. Then, contact the store where you bought the scanner or an authorized FUJITSU scanner service provider. Pay particular attention to this warning in households where there are small children.

Do not touch the inside of the scanner unless necessary.

Do not take apart or modify the scanner. The inside of the scanner contains high-voltage components. Touching these components might cause electric shock or fire.

All Rights Reserved Copyright 2006 © PFULIMITED

Safety Precautions (3)

Prev Next

1 | 2 | 3 | 4

CAUTION

Do not install the scanner on unstable surfaces.

Make sure that the scanner is installed on a flat, level surface and that none of its parts extend beyond the surface top, such as a desk or table. Do not install the scanner on unstable surfaces.
Install the scanner on a level surface that is free of vibration to prevent it from falling.
Install the scanner on a strong surface that will support the weight of the scanner and other devices.

Firmly insert the power plug.

Firmly insert the power plug as far it can go into the power outlet.

Do not block the ventilation ports.

Do not block the ventilation ports. Blocking the ventilation ports generates heat inside of scanner, which may result in fire or scanner failure.

Do not place heavy objects or stand on top of the scanner.

Do not place heavy objects on the scanner or use the scanner's surface top to perform other work. Improper installation might cause injuries and equipment failure.

Do not use the scanner immediately after moving it from a cold place into a warm room.

Do not use the device immediately after moving it from a cold place into a warm room. Condensation may occur, which might lead to scanning errors. Let the device dry about one or two hours before you use it.

Before moving the scanner, disconnect the power plug from the power outlet.

Do not move the scanner with the power and interface cables connected as this can damage the cables, which can later cause fire, electric shock as well as injury.
Before moving the scanner, be sure to disconnect the power plug from the power outlet, and all other data cables. Make sure that the floor is free of any obstructions.

1 | 2 | 3 | 4

All Rights Reserved Copyright 2006 © PFULIMITED

Safety Precautions (4)

CAUTION

Protect the scanner from static electricity.

Install the scanner away from strong magnetic fields and other sources of electronic noise. Also, protect the scanner against any static electricity, which can cause the scanner to malfunction.

Do not use aerosol sprays near the scanner.

Do not use aerosol sprays to clean the scanner. Aerosol sprays can blow dirt and dust inside the scanner, resulting in scanner failure or malfunction.

Avoid any contact when scanner is in use.

Avoid touching any scanner mechanism during scanning since this may cause injuries.

Disconnect the power plug from the power outlet when the scanner is not used for a long period of time.

When the scanner is not going to be used for a long period of time, be sure to disconnect the power plug from the power outlet.

Do not install the scanner in direct sunlight.

Do not install the scanner under direct sunlight or near heating apparatus. Doing so might cause excessive heat to build up inside the scanner, which can cause scanner trouble or even fire. Install the scanner in a well-ventilated location.

Before moving the scanner, make sure the shipping lock is locked.

When moving the scanner, be sure to lock the shipping lock in order to prevent damages to the scanner.

All Rights Reserved Copyright 2006 © PFULIMITED

fi-5120C / fi-5220C Image Scanner Operator Guide

Chapter 1 NAMAES AND FUNCTIONS OF PARTS

Prev Next

This chapter describes the scanner parts and their functions.

All Rights Reserved Copyright 2006 © PFULIMITED

1.1 Checking the Contents of the Scanner Package

Prev Next

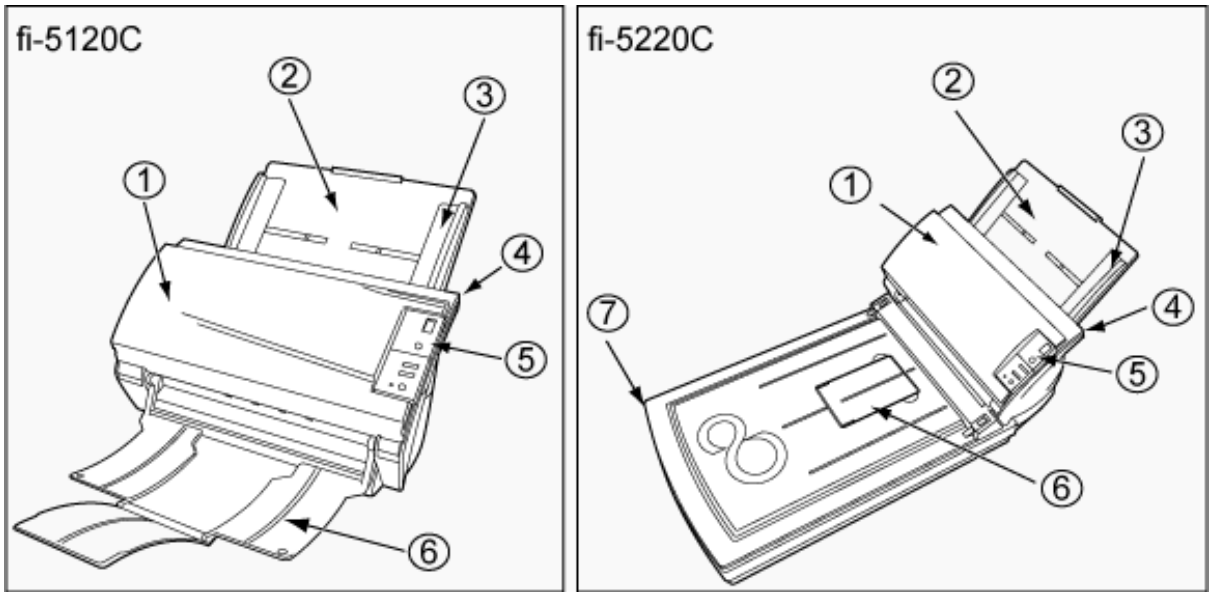
When you open the scanner package, please handle the main unit and its attachments carefully.
Make sure it contains all the parts listed in the package contents list that is included in the package box.
If any parts are missing or defective, contact the dealer were you purchased the scanner or an authorized FUJITSU scanner service provider

All Rights Reserved Copyright 2006 © PFULIMITED

1.2 Names and Functions of Parts (1)

This section describes the scanner parts and their functions.

Front



No.	Name	Function
1	ADF (Automatic Document Feeder)	It transports the document to the reading position automatically.
2	ADF paper chute	Holds in place the document pages / sheets that are fed into the ADF.
3	Side Guide	It is adjusted to the width of the paper in order not to scan skewed pages.
4	ADF button	Puch this button to open the ADF.
5	Operator panel	This panel consists of a Function No. display, four operating push buttons and a LED.
6	Stacker	Scanned documents are ejected from the ADF onto this tray.
7	Flatbed	For scanning documents not the standard sizes

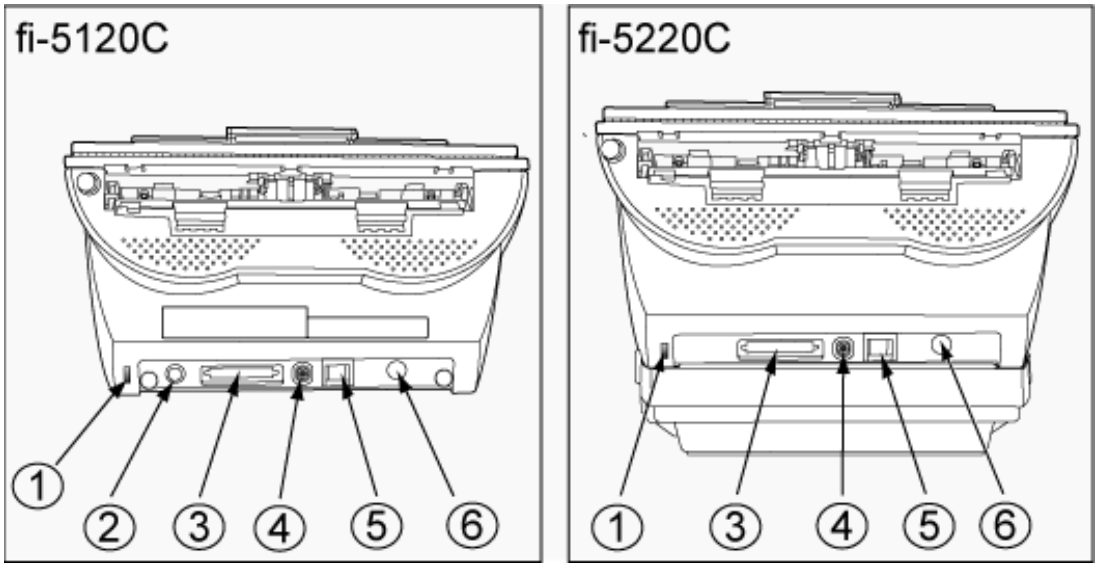
All Rights Reserved Copyright 2006 © PFULIMITED

1.2 Names and Functions of Parts (2)

Prev Next

1 | 2 | 3 | 4

Rear



No.	Name
1	Security Slot
2	Imprinter connector (fi-5120C only)
3	SCSI Interface connector
4	SCSI ID switch
5	USB Interface connector
6	DC Inlet

1 | 2 | 3 | 4

All Rights Reserved Copyright 2006 © PFULIMITED

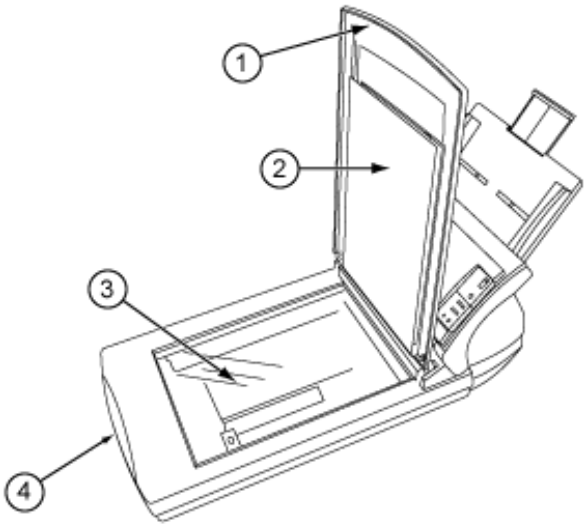
1.2 Names and Functions of Parts (3)

Prev Next

1 | 2 | 3 | 4

Inside

(for fi-5220C)



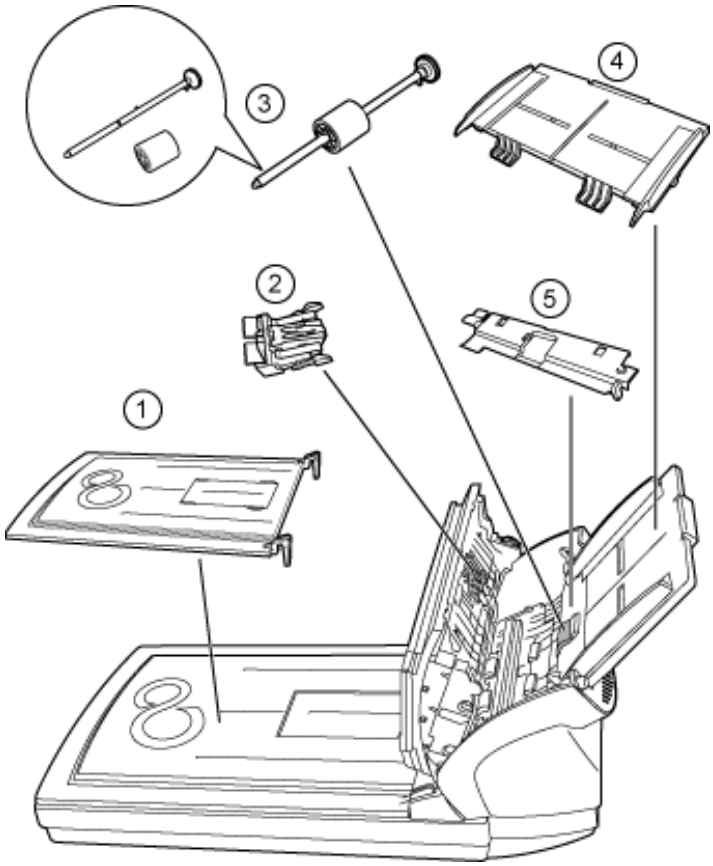
No.	Name
1	Document cover
2	Document holding pad
3	Document bed
4	Shipping lock (located on base)

1 | 2 | 3 | 4

All Rights Reserved Copyright 2006 © PFULIMITED

Removable Parts

Parts that can be removed from the scanner are displayed below.



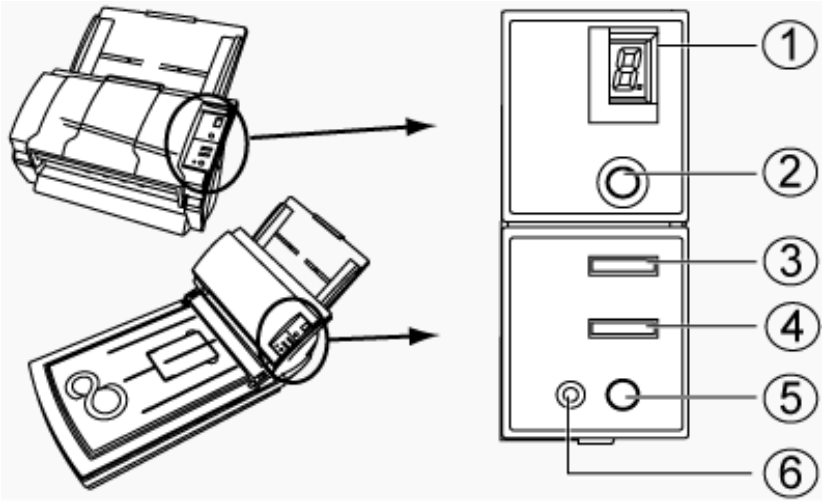
No.	Name
1	Document cover (fi-5220C only)
2	Pad ASSY
3	Pick roller (can be removed)
4	ADF paper shute
5	Sheet guide

All Rights Reserved Copyright 2006 © PFULIMITED

1.3 Functions of the operator panel

Prev Next

The operator panel is located on the right side of the scanner. This panel comprises of a Function Number display, four buttons and a LED.



No.	Name	Function
1	Function Number display	Indicates the function Number and error status.
2	Function Button	Changes the Function activated by the Send to button (*).
3	Send to Button	Launches the linked application software (*).
4	Scan Button	
5	Power Button	Turns the scanner ON and OFF.
6	LED	Lights when the scanner is turned ON.

* About the settings on the launcher, refer to FUJITSU TWAIN32 scanner driver help.

Indications on the Function Number display

Indication	Function
8	Blinks only one time upon turning on the scanner.
P	Indicates that the scanner has been turned ON and is being initialized.
0	Indicates that initialization will soon end.
1	Indicates that initialization has ended successfully. The scanner is now in "Ready Status".
U	Indicates that a temporary error occurred when documents were being scanned. A number appearing in alternation following the U (i.e., 1 or 2, etc.) refers to the type of error. To return the scanner to the ready status ("1"), press "Scan" or "Send to" button.
E	Indicates that a device (hardware) alarm has occurred during scanning of documents. "E" and the alarm Number (0 to 9, A,c,d and F) will appear alternately. To return the scanner to the ready status ("1"), press "Scan" or "Send to" button. If this alarm occurs, turn the power off and on again. If the alarm continues after turning the power on again, contact your service engineer.

All Rights Reserved Copyright 2006 © PFULIMITED

fi-5120C / fi-5220C Image Scanner Operator Guide

Chapter 2 BASIC SCANNER OPERATIONS

Prev Next

This chapter describes basic scanner operations.

In this chapter Windows XP screenshots are illustrated. The screens and operations may differ slightly if the OS that you are using is other than Windows XP.
Also, when FUJITSU TWAIN32 or FUJITSU ISIS is updated the screens and operations noted in this chapter will differ slightly.

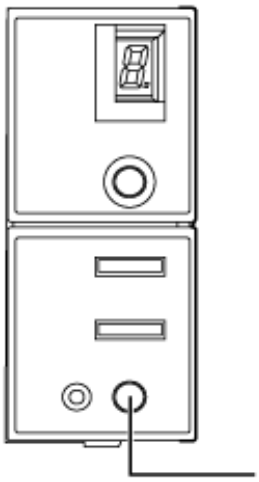
All Rights Reserved Copyright 2006 © PFULIMITED

2.1Turning the Scanner ON (1)

This section describes how to turn the scanner ON.
The following shows the procedure for turning the scanner ON.

1. Press the power button on the operator panel.

The scanner is turned ON, and the green LED on the operator panel lights. Also, while the scanner is being initialized, the indication of the Function Number display changes as follows: "8" -> "P" -> "0" -> "1" The indication "1" means that the operator panel is in the ready status.



Power button

HINT

To turn the scanner OFF, hold the power button down for at least two seconds.

About Power ON/OFF Control

You can select to power the scanner on/off either by pressing the Power button, or by connecting / disconnecting the AC cable.
The procedure is as follows.

1. Open Scanner's Properties.

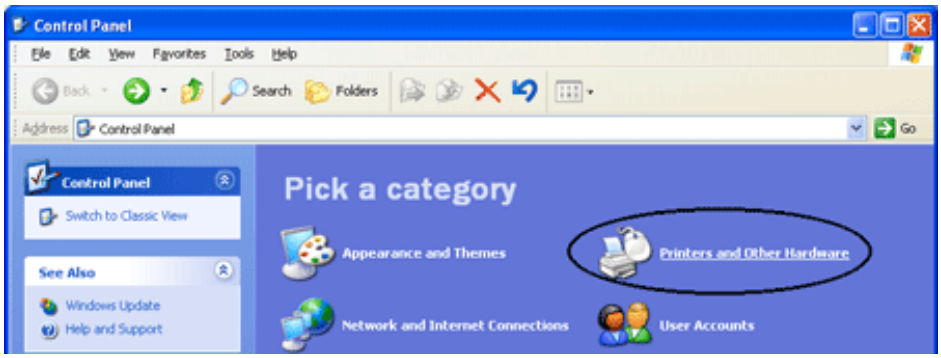
For Windows 98 / Windows Me / Windows 2000 / Windows XP

1) When turning on the power, check that the scanner is connected to your PC.
Refer to "2.2 Connecting the Scanner to a PC in " fi-5120C / fi-5220C Getting Started".

All Rights Reserved Copyright 2006 © PFULIMITED

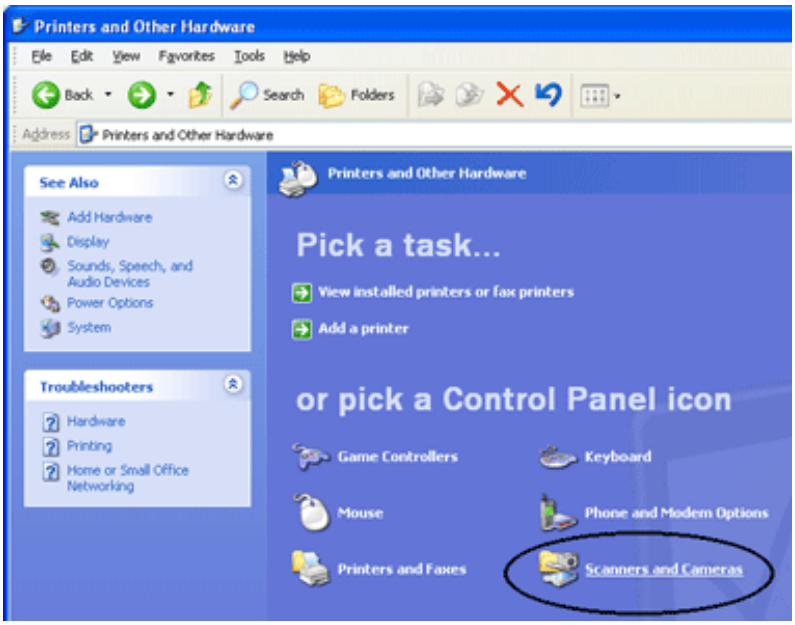
2.1 Turning the Scanner ON (2)

2) Double click the "Printer and Other Hardware" icon on the Control panel of your PC.



➡ The [Printer and Other Hardware] window appears.

3) On the [Printers and Other Hardware] window, double click the [Scanners and Cameras] icon.



➡ The [Scanners and Cameras] window is displayed.

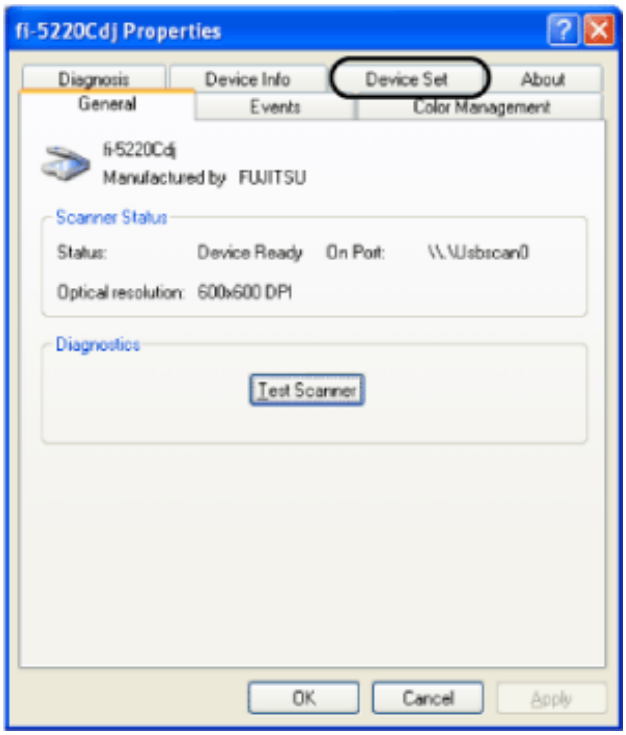
All Rights Reserved Copyright 2006 © PFULIMITED

2.1 Turning the Scanner ON (3)

4) Right click [fi-5120Cdj] or [fi-5220Cdj], and select [Properties] from the menu.

➡The properties dialogbox of fi-5120C or fi-5220C appears.

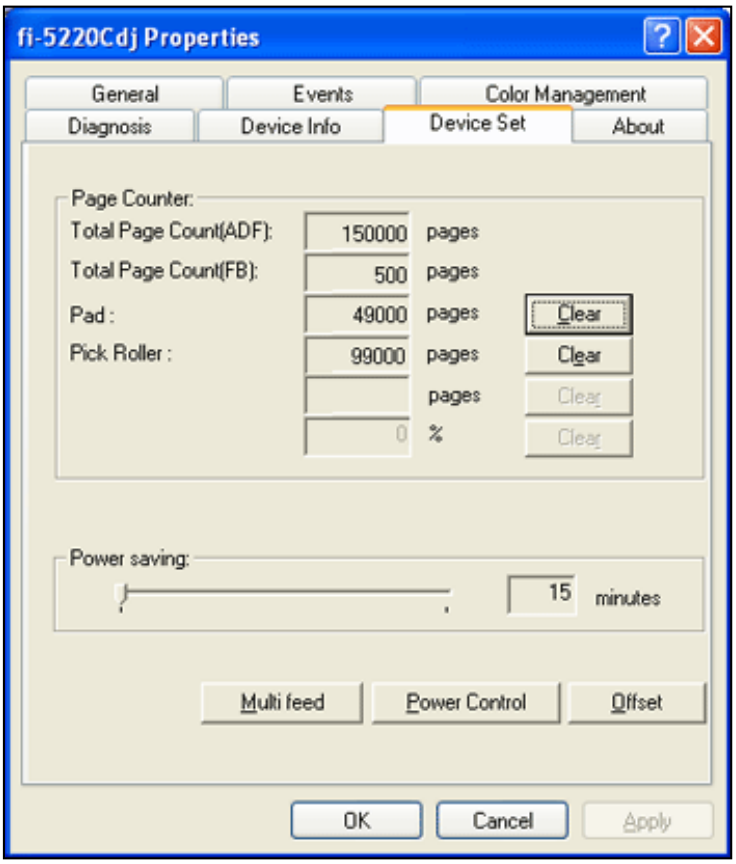
5) Click the "Device Set" tab.



All Rights Reserved Copyright 2006 © PFULIMITED

2.1 Turning the Scanner ON (4)

➡The following screen appears.



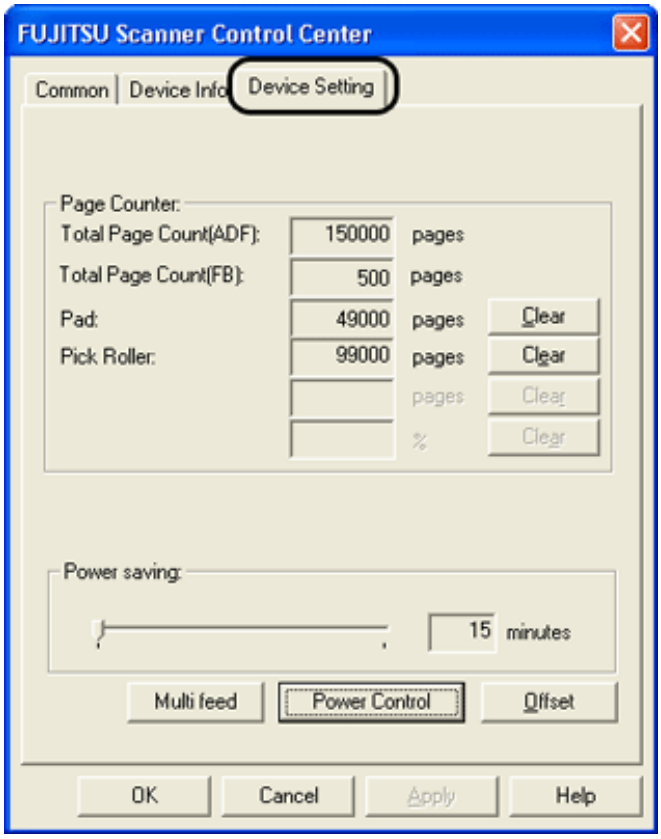
For Windows 95 / Windows NT4.0

1) When turning on the power, check that the scanner is connected to your PC.

2) Right click the "FUJITSU Scanner Control Center" icon displayed in the task tray, then select "Option".

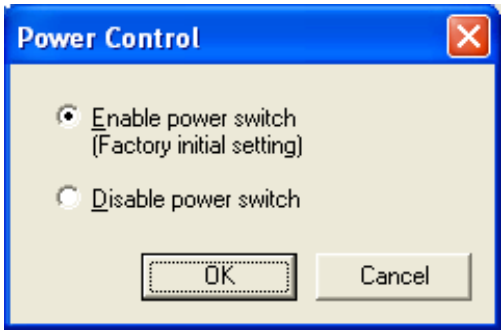
All Rights Reserved Copyright 2006 © PFULIMITED

3) Click "Device Set" tab.
➡The following screen is displayed.



2. Click [Power Control] button

➡The following screen is displayed.



3. Select a power ON/OFF control

- To power on/off the scanner by pressing the Power button:
  ➡ select "Enable power switch".
- To power on/off the scanner by connecting/disconnecting the AC cable:
  ➡ select "Disable power switch".

Power Save Mode

The Power Save mode keeps the scanner in a low-powered state after it has been turned ON.
If no operation is performed on the scanner for 15 minutes, the scanner automatically switches to the Power Save mode.
In the Power Save mode, the indication of the Function Number display on the operator panel goes out, but the green LED stays lit.

To return from the Power Save mode, perform one of the following:

- Load the document on the ADF paper chute.
- Press any button on the operator panel.
  The scanner will be turned OFF when pressing down the power button for at least two seconds.
- Execute a command from the scanner driver.

All Rights Reserved Copyright 2006 © PFULIMITED

2.2 Loading Documents on the ADF for Scanning (1)

1. Align the edges of the documents.

① Confirm that all the documents have the same width.
② Check the number of sheets in the document stack.
The standard number of sheets that can be loaded on the scanner is as follows:
(For details, see "7.3 Maximum Document Loading Capacity")

- A4-size paper or smaller that makes a document stack of 5mm or less
- Maximum 50 sheet at A4, 20 lb, or 80 g/m^2

2. Fan the documents as follows:

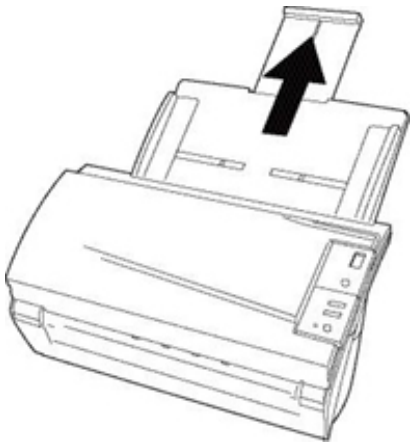
①Lightly grip both ends of the document with both hands, and bend the document as follows.
②Firmly holding the document with both hands, bend back the document as follows so that the bent section rises up in the middle of the document as follows.
③Repeat steps 1) to 2) a few times.
④Rotate the document 90 degrees, and fan again.

All Rights Reserved Copyright 2006 © PFULIMITED

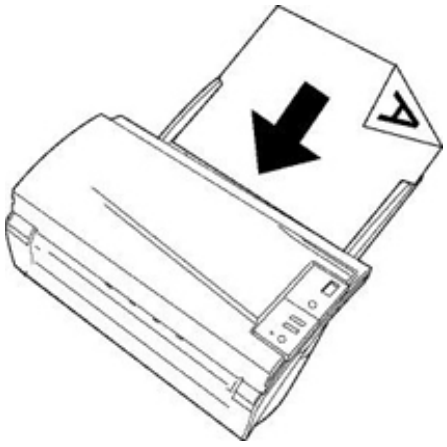
2.2 Loading Documents on the ADF for Scanning (2)

3. Load the document on the ADF paper chute.

①Pull out the ADF paper chute extension.



②Set the documents face-down in the ADF paper chute (so that the side to be scanned faces towards the ADF paper chute).

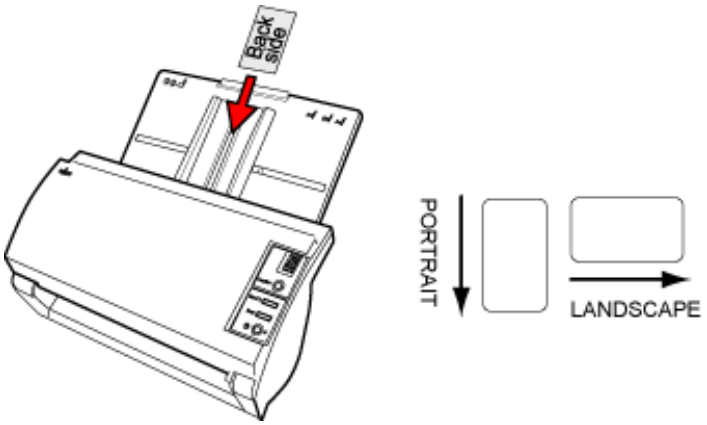


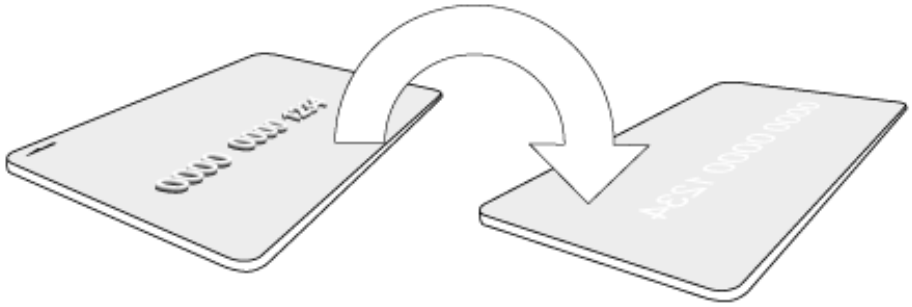
Load the document facing the ADF paper chute.(face down)

ATTENTION

This scanner can scan ID cards through the Automatic Document Feeder with the following precautions.

- Place one card at a time into the Auto Document Feeder.
- ID card feeding requires the card to be fed through the Auto Document Feeder in portrait mode as in the following figure.
- Smooth cards should be placed face down in the Auto Document Feeder.
- Embossed cards (raised lettering) should be placed with the embossed side down.





- The card to be scanned should be within the ISO7810 compliance, type ID-1.
  ISO7810-compliant, Type ID-1 card

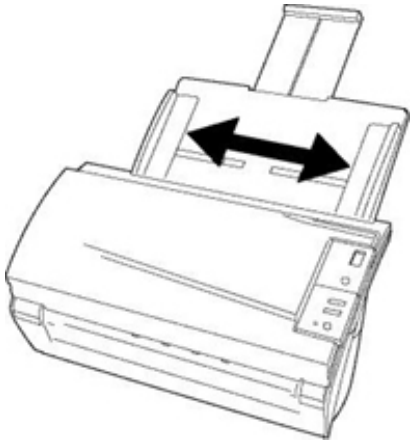
Material:	PVC (Poly vinyl chloride) or PVCA (Polyvinyl chloride acetate)
Dimensions:	3.4 inch (height) x 2.1 inch (width) / 86 mm x 54 mm
Thickness:	0.03 ± 0.003inch / 0.76 ± 0.08mm

- Cards that are excessively rigid or less flexible may not feed smoothly and excessive noise may occur.
- Cards should be clean from oil and without labels.
- Cards cannot be scanned when the imprinter is installed.

All Rights Reserved Copyright 2006 © PFULIMITED

4. Adjust the side guides to the width of the documents.

Move the side guides so that they touch both sides of the documents. If there is any space between the side guides and the edges of documents, the scanned image may be skewed.



All Rights Reserved Copyright 2006 © PFULIMITED

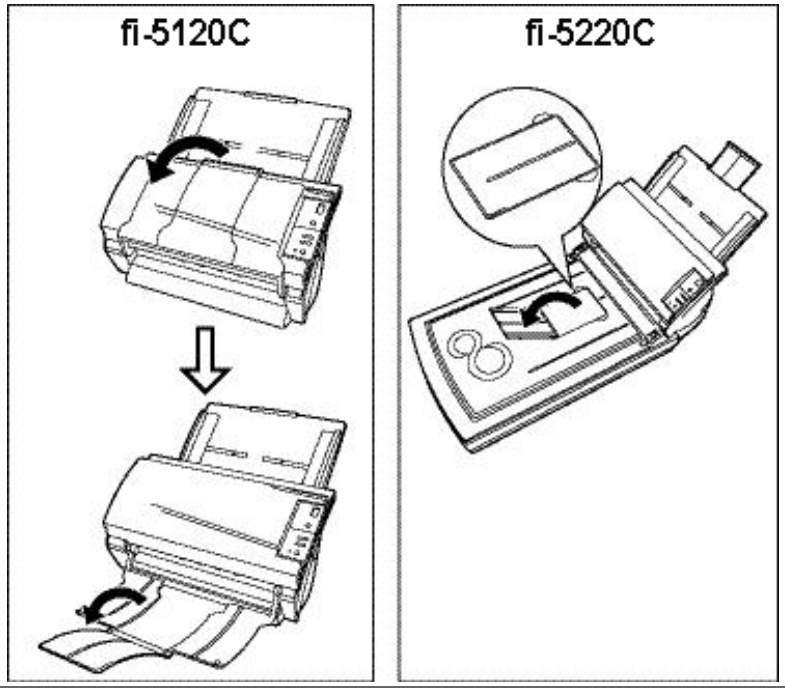
2.2 Loading Documents on the ADF for Scanning (4)

Prev Next

1 | 2 | 3 | 4

HINT

The stacker prevents document sheets from dropping after they are scanned.
Lift the paper stop and swing it forward by inserting your fingertips into the indentaitons on the scanner as shown in the figure below.



5. Start up the scanner application, and scan the document.

For details on how to scan documents using the ScandAll 21 application, refer to "2.4 Scanning Documents".

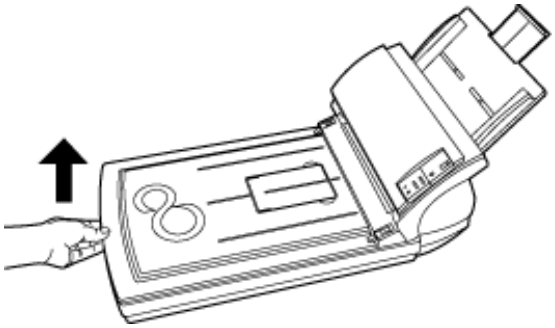
1 | 2 | 3 | 4

All Rights Reserved Copyright 2006 © PFULIMITED

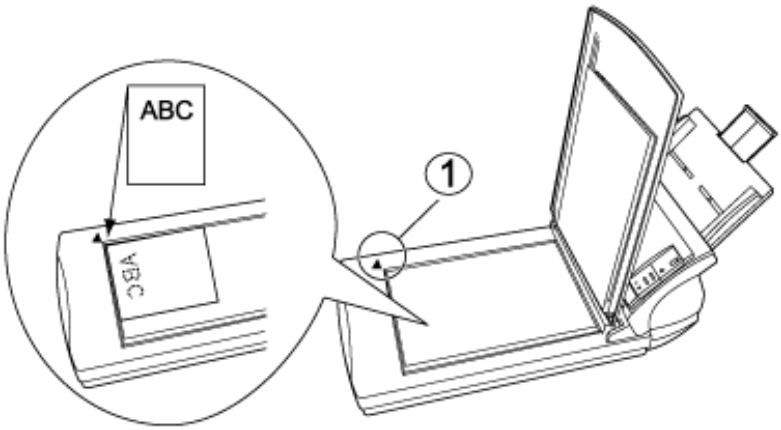
2.3 Loading Documents on the Flatbed for Scanning

Prev Next

1. **Lift up the document cover.**



2. **Load the document on the document bed with the scanning face down and the top left corner aligned with the reference point (①).**



① : Reference Point

3. **Gently close the document cover.**

4. **Start up the scanner application, and scan the document.**

For details on how to scan documents using the ScandAll 21 application, see "2.4 Scanning Documents".

All Rights Reserved Copyright 2006 © PFULIMITED

2.4 Scanning Documents (1)

Prev Next

1 | 2

1. Load the document on the scanner's ADF paper chute or Flatbed.

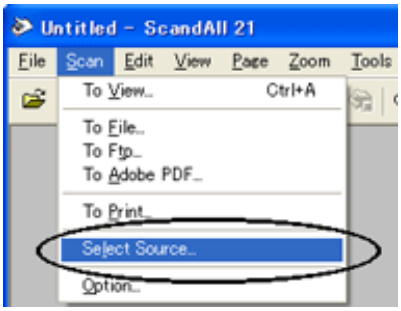
For details on how to load documents, see "2.2 Loading Documents on the ADF for Scanning" and "2.3 Loading Documents on the Flatbed for Scanning".

2. Start up ScandAll 21.

Select [Start] - [Program] - [Scanner Utility for Microsoft Windows] - [ScandAll 21].
This starts up ScandAll 21.

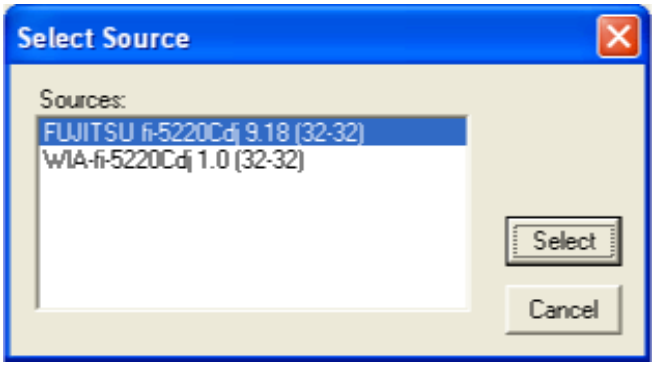
3. Select the scanner to be used.

Select [Select Source] from the [Scan] menu.

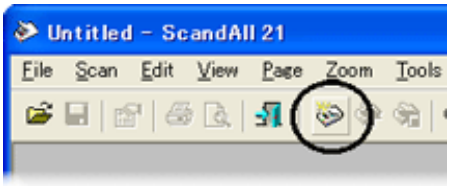


➡The [Select Source] dialog box appears.

Select "FUJITSU fi-5120Cdj" or "FUJITSU fi-5220Cdj" (for Windows 95 and WindowsNT 4.0, select "FUJITSU TWAIN 32") and click the [Select] button.



4. Click the [Scan To View] button on the tool bar.



➡The [TWAIN Driver] dialog box (screen for setting the scan conditions) appears.

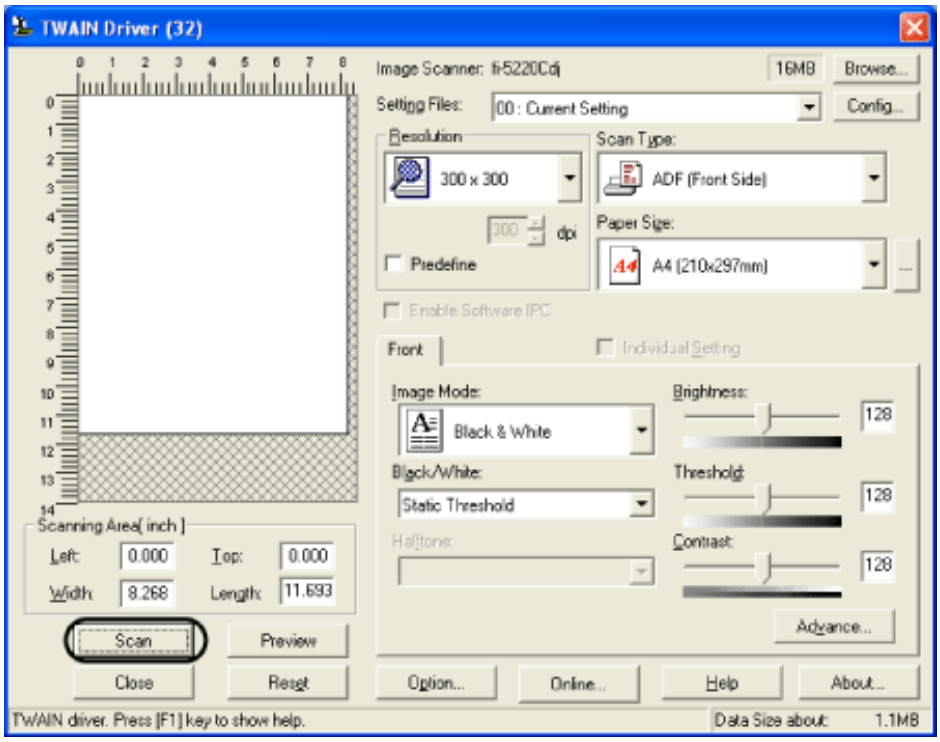
2.4 Scanning Documents (2)

Prev Next

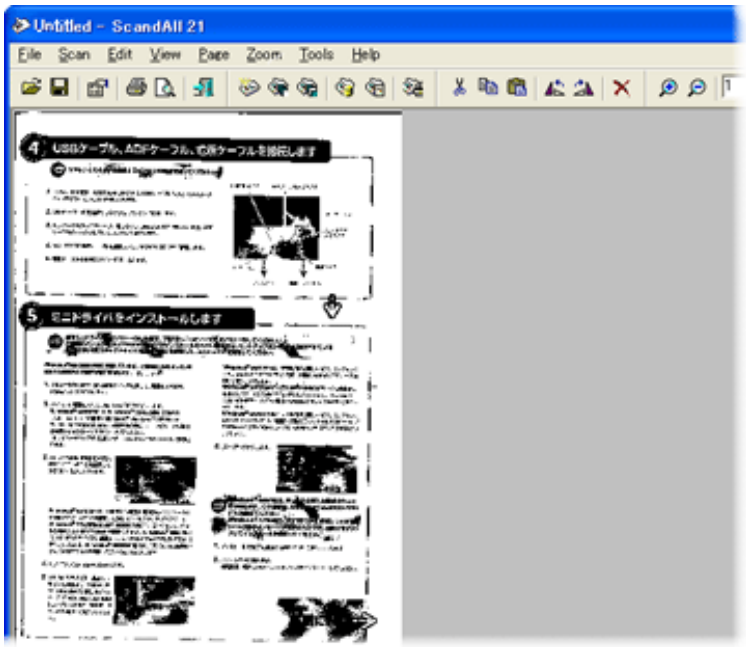
1 2

5. Set the scan resolution, paper size and other scan conditions, and click the [Scan] button.

For details on settings in the [TWAIN Driver] dialog box, refer to "2.5 How to Use the Scanner Driver".



➡ The document is scanned, and an image of the scanned document appears on the ScandAll 21 screen.



For details on scanning other types of documents, refer to "Chapter 3 SCANNING VARIOUS TYPES OF DOCUMENTS".
For details on ScandAll 21 functions and operations, refer to ScandAll 21 Help.

FUJITSU TWAIN32 Scanner Driver

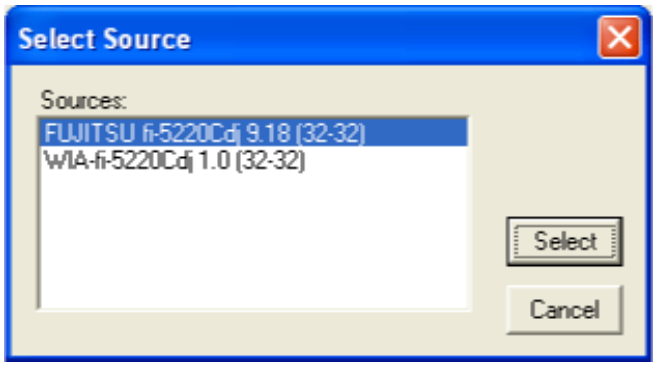
FUJITSU TWAIN32 Scanner Driver is designed for scanning documents with FUJITSU image scanner fi series by using application software that complies with the TWAIN standard.
The following describes the procedure with examples of ScandAll 21 for ordinary scanning by using this driver software.

1. Procedure for Basic Scanning Operation

①Startup the application.
From the [Start] menu, select [Programs]-[Scanner Utility for Microsoft Window] and click [ScandAll 21].

②Select your scanner on the window below. Select [Select Source] from the [Scan] menu.

③Select the scanner to use, then click the [Select] button.



Select

- For Windows 98, Windows Me, Windows 2000, Windows XP: "FUJITSU fi-5120C" or "FUJITSU fi-5220C"
- For Windows 95, Windows NT4.0: FUJITSU TWAIN 32

All Rights Reserved Copyright 2006 © PFULIMITED

2.5 How to Use the Scanner Driver (2)

④ Load the documents on the scanner.
For details on loading documents, refer to "2.2 Loading Documents on the ADF for Scanning".

⑤ Open the TWAIN Driver window.
Select [Scan To View] from the [Scan] menu.

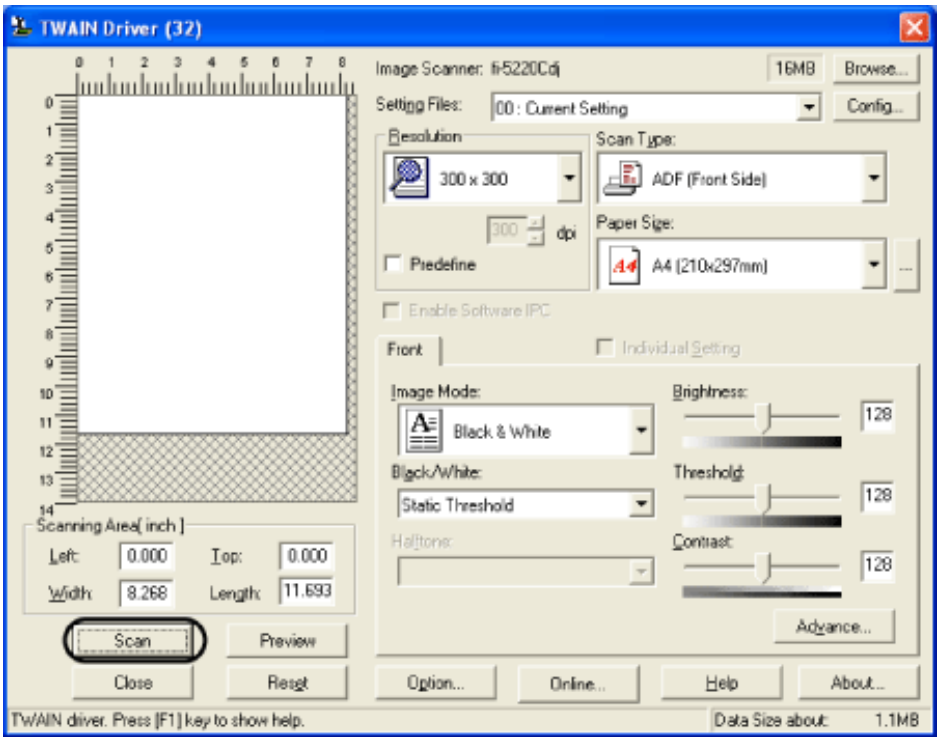
HINT

ScandAll 21 provide scanning methods as follows:

- [To View...]: Displays scanned images on the window.
- [To File...:]: Saves scanned images as files (*.BMP, *.TIF, *.JPG).
- [To FTP...:]: Transfers scanned images to a FTP server.
- [To Adobe PDF...:]: Saves scanned images as PDF files.
  (*Adobe Acrobat must be installed beforehand.)
- [To Microsoft SharePoint Portal Server...]:
  Transfers scanned images to Microsoft Share Point Portal Server.
- [To Mail...]: Launches mailer software and attaches scanned images to e-mail.

For details, refer to "ScandAll 21 Help".

⑥ Configure settings for scanning and click the [Scan] button.



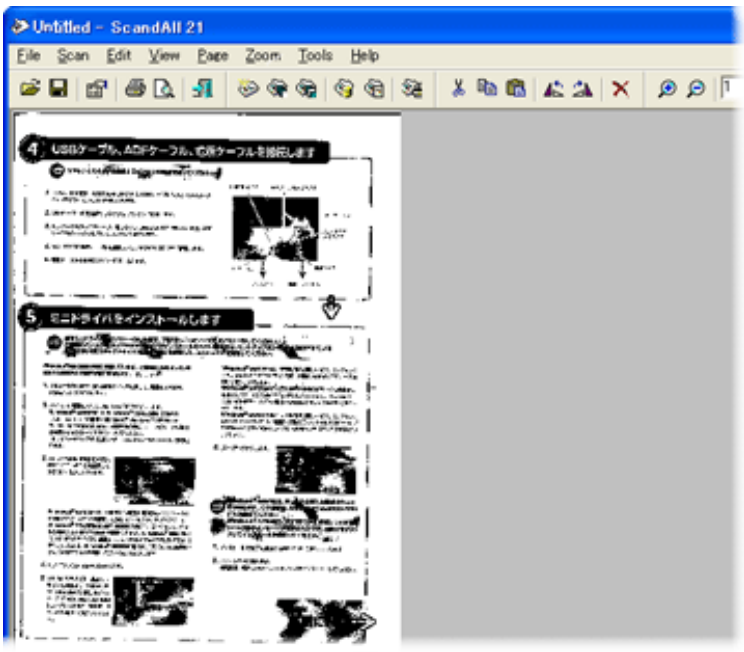
For details about the settings on this window, refer to "Setting Window for FUJITSU TWAIN32 Scanner Driver".

2.5 How to Use the Scanner Driver (3)

Prev Next

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15

➡ The images of scanned documents are displayed on the [ScandAll 21] window.



Depending on the settings of the application software, images may not be displayed.
For details, refer to the documentation or Help file of your application.
e.x.) When you select [To File...] from the [Scan] menu of ScandAll 21, images of scanned documents are not displayed on the window.

⑦ Save the scanned images.
Select [Save As...] from the [File] menu to save the scanned images.
If you wish to start another scanning, return to procedure 4.

⑧ End the application.
Select [Exit] from the [File] menu.

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15

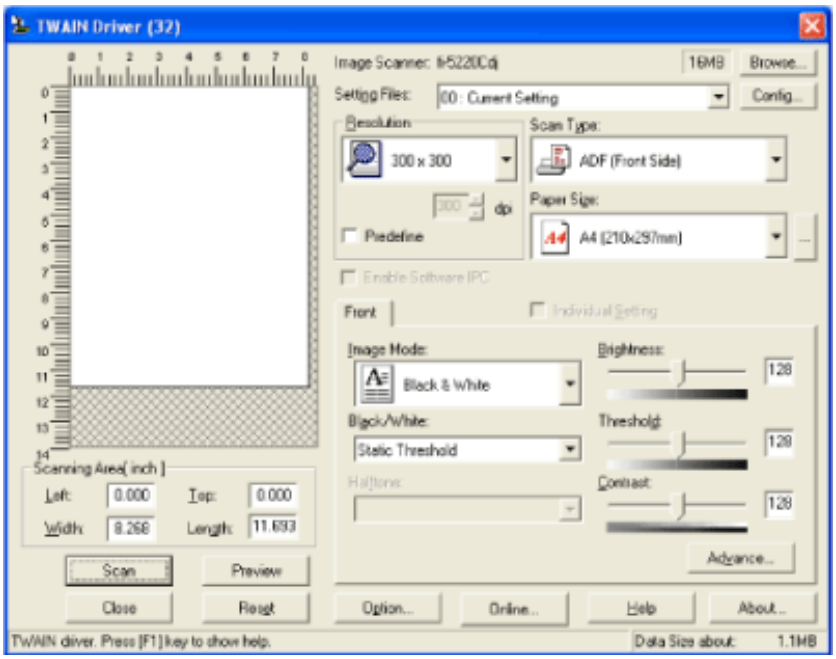
All Rights Reserved Copyright 2006 © PFULIMITED

2.5 How to Use the Scanner Driver (4)

Prev Next

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15

2. Setting Window for FUJITSU TWAIN32 Scanner Driver



You can configure settings for the FUJITSU TWAIN32 Scanner Driver on this window.
The following describes the main setting items.

- For details on each functions, refer to "FUJITSU TWAIN32 Scanner Driver Help" (appears by pressing [Help] or [F1] button).
- Depending on the type of your scanner, available setting items or range of setting values vary.

Resolution

Specifies the resolution of scanning.
It can be specified by selecting a default value from the list or customizing (specify any resolution in 1 dpi unit).
By marking the [Predefine] checkbox, you can select one from three predefined settings as [Normal], [Fine], [Super Fine] to scan documents instead of setting details by yourself.
Otherwise, you can change the details of the predefined settings on the [Resolution Setting] window, which appears when you click on the [...] button.

Scan Type

Specifies the feeding method, the side(s) to be scanned (Front Side, Back Side, Duplex, flatbed[fi-5220C only]) or details of Long page (the size of documents longer than A4).

Paper Size

Selects the size of documents to be scanned from this list.
Windows for customizing the paper size will appear when you click on [...] besides the list. You can save any document size as a customized setting (up to three) or for changing the order of the paper size in the list.

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15

2.5 How to Use the Scanner Driver (5)

Image Mode

Specifies the image type for the scanned documents

Black & White	Documents are scanned in binary (black and white).
Halftone	Documents are scanned through halftone processing in black and white.
Grayscale	Documents are scanned in gradations from black to white. For this mode you can select 256 gradations or 4 bit (16 gardations).
Color	Documents are scanned in color. For this mode, you can select 24 bit Color, 256 Color or 8 Color.

[Scan] button

Starts scanning documents with the current settings.

[Preview] button

Documents are scanned preliminarily before the actual scanning.
You can confirm the image of the documents in the preview window.

[Close] button

Saves the current settings and closes this window.

[Reset] button

Used to undo changes of settings.

[Help] button

Opens the "FUJITSU TWAIN32 Scanner Driver Help" window. The window also opens by pushing the [F1] key.

[About...] button

Opens an information window about the FUJITSU TWAIN32 Scanner Driver's version.

All Rights Reserved Copyright 2006 © PFULIMITED

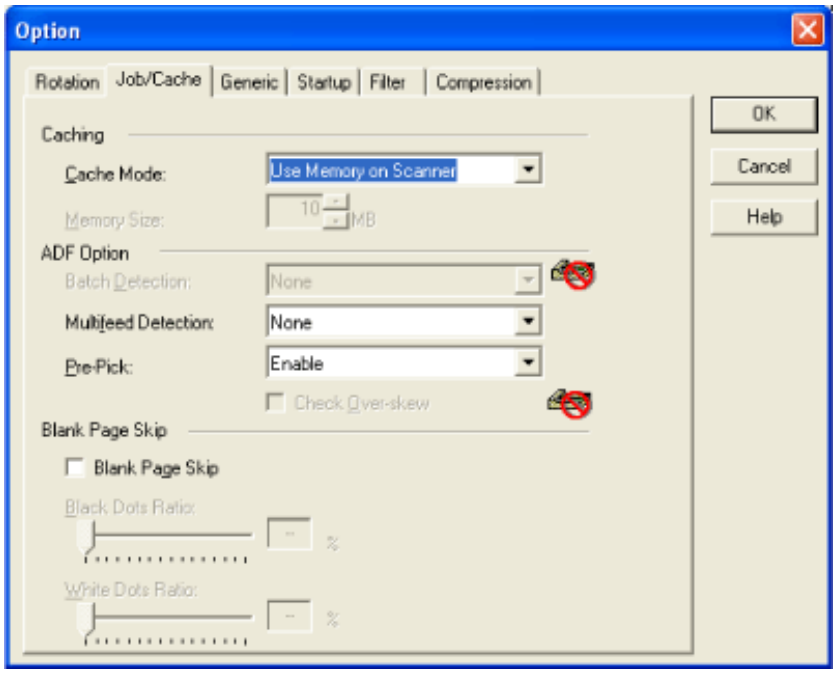
2.5 How to Use the Scanner Driver (6)

Prev Next

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15

[Option...] button

You can set up the details of optional functions on the window below.



[Rotation] tab

Selects this tab when setting image rotation, detection of document size, etc.

[Job/Cache] tab

Selects this tab when setting cache mode, multi feed detection, blank page skipping, etc.

[Generic] tab

Selects this tab to change the unit displayed on the Setting Window for the FUJITSU TWAIN32 Scanner Driver. (Millimeters, Inches, and Pixels are available)

[Startup] tab

Selects this tab for setting the Scanner Operation Panel.

[Filter] tab

Selects this tab for setting the image processing filter(s).
Page Edge Filler: Fills up the margins of the scanned documents with a selected color.
Digital Endoser: A character string, such as the alphabet and numbers, can be added in the scanned document.

[Compression] tab

Selects this tab for setting the compression rate of JPEG Transfer.

[Advance...] button

Click this button for settings of the advanced image processing.
You can set Edge Extract, Gamma Pattern, White Level Follower, Dropout Color, Reverse, etc.

[Config...] button

Click this button for configuring the Setting Files.
You can save the changed settings as a Setting File. From next scanning, the settings are quickly changed by using these Setting Files.

For details of each function, refer to the "FUJITSU TWAIN32 Scsnner Driver Help".

FUJITSU ISIS Scanner Driver

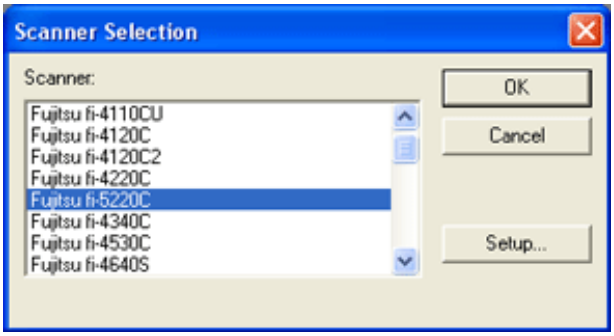
FUJITSU ISIS Scanner Driver is designed for scanning documents with FUJITSU image scanner fi series by using application software that complies with the ISIS standard.
The following describes the procedure with examples of QuickScan for ordinary scanning by using this driver software.
The procedure may vary depending on your application. If you use an application other than QuickScan, please refer to its Guide or Help for further information.

1. Procedure for Basic Scanning Operation

① Startup the application.
From the [Start] menu, select [Programs] - [QuickScan] and click [QuickScan].

② Select your scanner on the window below.
Select [Scan] - [Select Scanner] on the menu bar.

③ Select the scanner to use (fi-5120C or fi-5220C) then click the [OK] button.



④ Select [Scan] - [New Batch] on the menu bar.

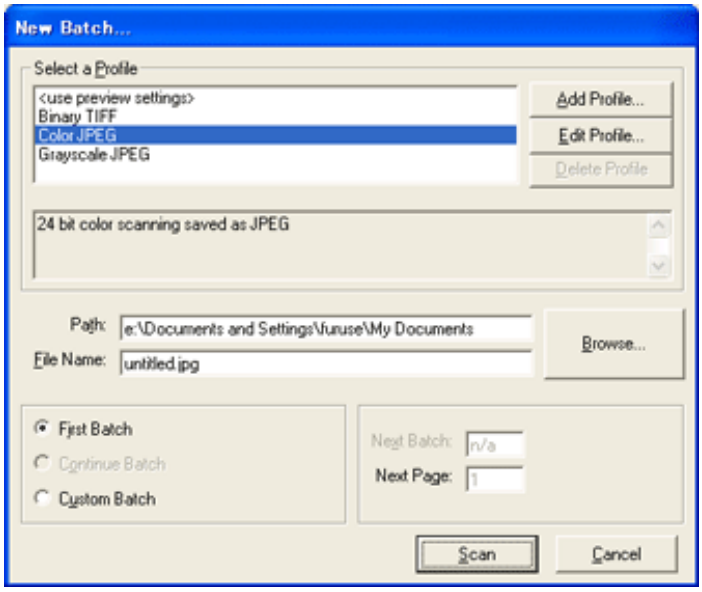
All Rights Reserved Copyright 2006 © PFULIMITED

2.5 How to Use the Scanner Driver (8)

Prev Next

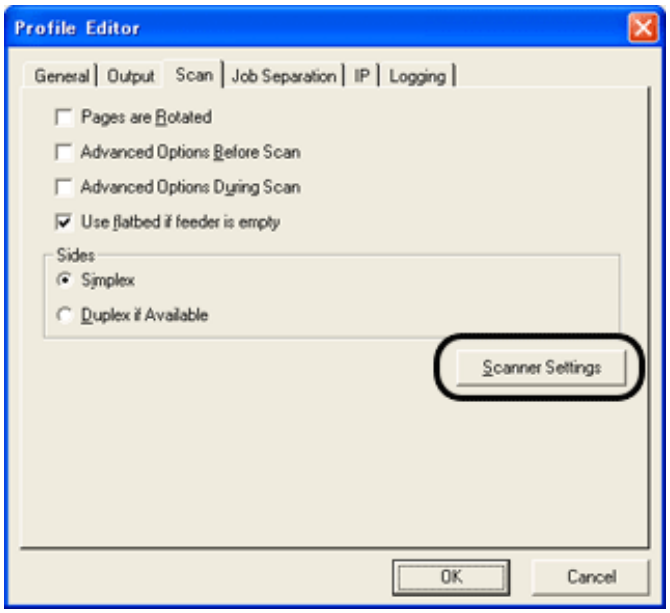
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15

⑤ Select the profile for scanning.



- **When creating a new profile**
  Select one from already existing profiles and click [Add Profile...] button.
  ➡ A new profile will be created based on the profile you select.
- **When changing the settings of already existing profiles**
  Select one from already existing profiles and click [Edit Profile...] button.
  ➡ The settings of the selected profile can be changed.
- **When using an existing profile**
  Select one from an already existing profiles.
  ➡ Scanning will be started according to the settings of the selected profile.
  ➡ Go to procedure 9.

⑥ Open the window of ISIS Driver.
Select the [Scan] tab and click the [Scanner Settings] on the [Profile Editor] window.



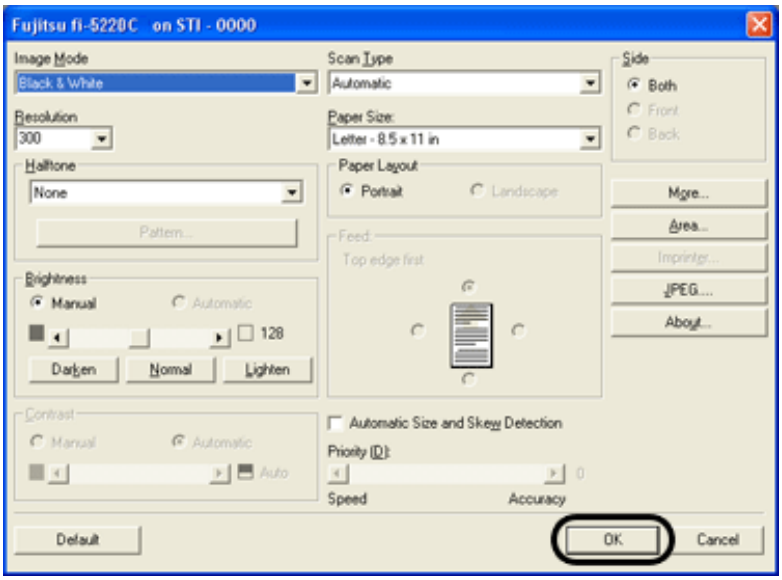
➡ The configuration window of FUJITSU ISIS driver appears.

2.5 How to Use the Scanner Driver (9)

Prev Next

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15

⑦Configure settings for scanning and click the [OK] button.

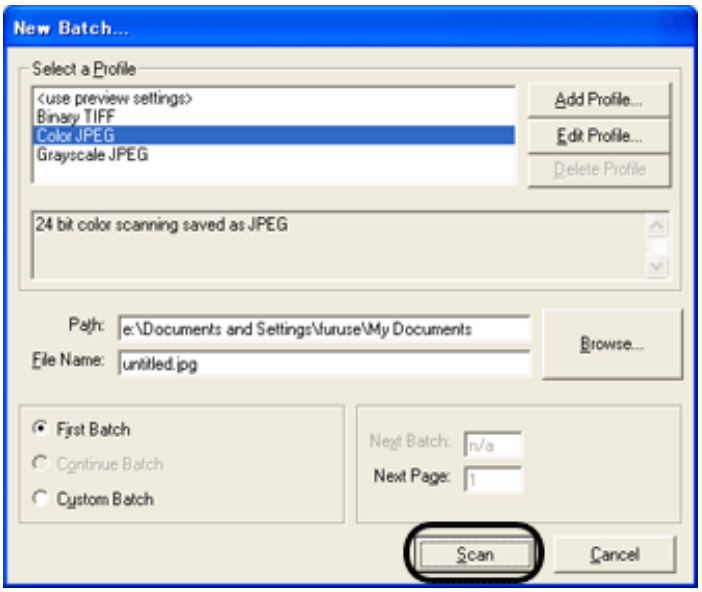


For details on this dialog box, refer to "Configuration Window of FUJITSU ISIS Scanner Driver".

⑧The [Profile Editor] window appears. Click the [OK] button to return to [New batch] dialog.

⑨Load the documents on the scanner.

⑩Click the [Scan] button.



➡ Scanned images are displayed on the window.
Refer to the "QuickScan Overview" or the "QuickScan Help" for further information on functions and operations of QuickScan. After the installation of QuickScan, it is registered in the [Start] menu.

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15

All Rights Reserved Copyright 2006 © PFULIMITED

2. Configuration Window of FUJITSU ISIS Scanner Driver

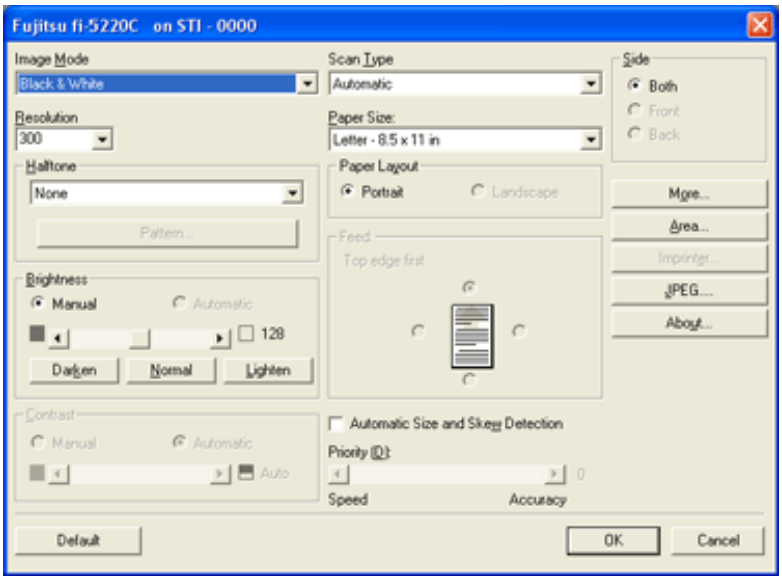


Image Mode

Selects a color mode suitable for the purpose from the menu.

Black & White	Scans data in binary (black and white). Distinguishes black from white according to the fixed threshold. This scanning mode is suitable for scanning line drawings and text documents.
16-level Grayscale	Scans data by 14 shades of gray plus black and white. This mode uses 4 bits per pixel.
256-level Grayscale	Scans data by 254 shades of gray plus black and white. This mode uses 8 bits per pixel. This mode is switable for scanning monochrome photographs.
24-bit Color	Scans data as full-colored image using 24 bits per pixel. This mode is suitable for scanning color photographs.
Image Processing	Binary processing is applied to the scanned images This mode is available only when Image Processing Software Option (separately sold) is installed. Please refer to the "Userfs Guide of Image Processing Software Option" for details.

Resolution

Specifies the number of pixels (dots) per inch.
Select a fixed resolution from the list or enter any value (from 50 to 600) manually. A higher resolution produces finer image, but requires much more memory.

All Rights Reserved Copyright 2006 © PFULIMITED

Halftone

Selects the halftone pattern for halftone scanning. This setting is available when "Black & White" is selected in the "Image Mode".

Dither Pattern 0	This setting is suitable for scanning dark photographs.
Dither Pattern 1	This setting is suitable for scanning dark-colored documents containing both text and photographs.
Dither Pattern 2	This setting is suitable for scanning light photographs.
Dither Pattern 3	This setting is suitable for scanning light-colored documents containing both text and photographs.
Error Diffusion	This function minimizes differences of color levels due to subtractive color process by diffusing the difference to the adjacent pixels. This mode is suitable for scanning images of photographs, etc.
Download	Executes processing with the dithered download pattern specified in the dithered download file.

Brightness

Sets the brightness of the entire image. Specify the brightness as a number within the range of 1 (dark) to 255 (bright). To brighten the entire image, increase the value of the setting. To darken the entire image, decrease the value.

Contrast

Sets the contrast between light and shadow of the scanned image. Specify the contrast as a number within the range of 1 (low [soft]) to 255 (high [sharp]). Increasing this value makes the contrast sharper.

Scan Type

Selects the scanning method.

Automatic	Detects the document loaded onto the scanner and determines automatically whether to scan from the ADF, or from the Flatbed. (fi-5220C only)
Flatbed	Scans the document placed on the flatbed. (fi-5220C only)
ADF (Front Side)	Scans only the front sides of documents.
ADF (Back Side)	Scans only back sides of documents.
ADF (Duplex)	Scans both front and the back sides of documents. When this option is selected, the both sides of documents are scanned simultaneously. This option can be used only for the models that support duplex scanning.

All Rights Reserved Copyright 2006 © PFULIMITED

2.5 How to Use the Scanner Driver (12)

Prev Next

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15

Paper Size

Selects a paper size according to the size of the document to be scanned. Select a standard paper size from the list.

Paper Layout

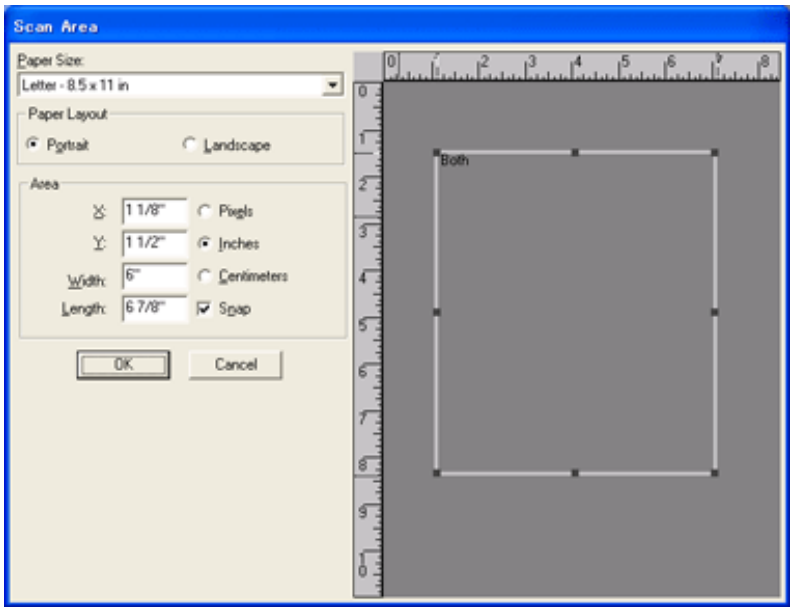
Specifies orientation of the documents as portrait or landscape.

Automatic Size and Skew detection

This option will adjust the output to the detected page size, and it will detect and automatically correct the skew of the document.
With [Priority] slider control, you can change accuracy of Automatic Page Size Detection. Move the slider to the right when improving the detection accuracy.

[Area...] button

Opens the Scan Area dialog box.
Specify scan area for the document size.
The size can be set by dragging the frame with mouse.
Otherwise, enter any value for the setting.

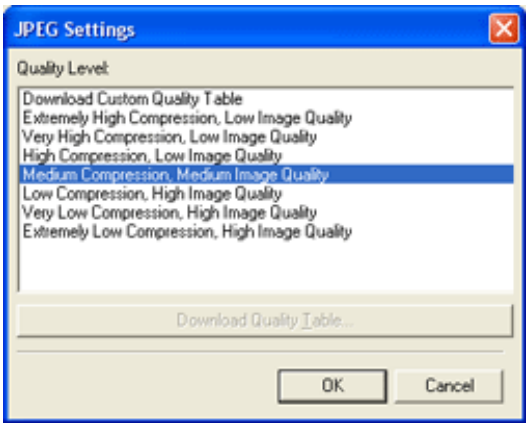


1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15

All Rights Reserved Copyright 2006 © PFULIMITED

[JPEG...] button

Opens the JPEG Settings dialog box. Used for setting the compression rate of JPEG transfer.


JPEG Settings
Quality Level
Download Custom Quality Table
Extremely High Compression, Low Image Quality
Very High Compression, Low Image Quality
High Compression, Low Image Quality
Medium Compression, Medium Image Quality
Low Compression, High Image Quality
Very Low Compression, High Image Quality
Extremely Low Compression, High Image Quality
Download Quality Table...
OK
Cancel

[About...] button

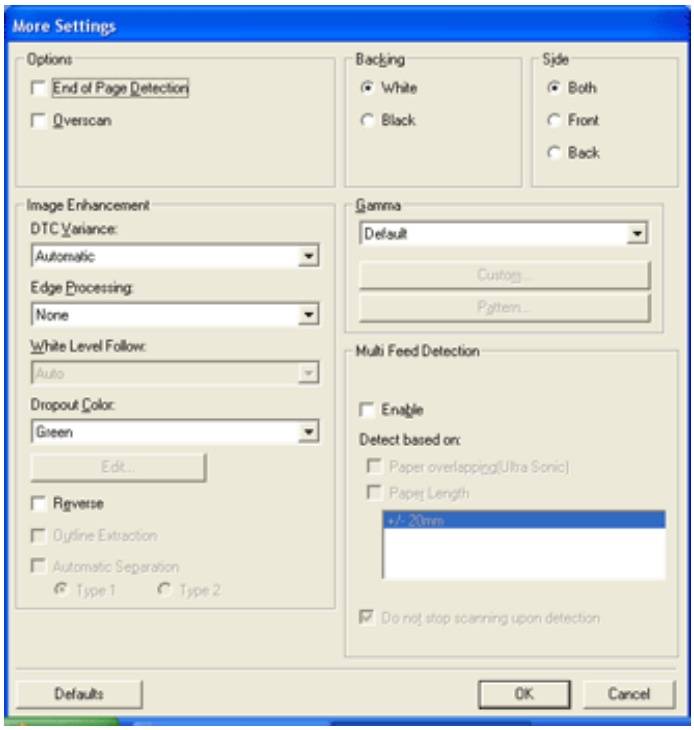
This button displays the version information.

All Rights Reserved Copyright 2006 © PFULIMITED

2.5 How to Use the Scanner Driver (14)

[More...] button

Opens [More Settings] window. Used for setting advanced features.



End of Page Detection

Scans the edge (bottom) of the documents and outputs data adjusted to the document length. When any page shorter than specified "Paper Size" is included, the output size is adjusted to the detected short size.

Overscan

This function makes the scanned images larger than the original documents by adding margins.

Backing

With this function, the outside of document paper becomes black / white by selecting [black] / [white] background.

Gamma

Specifies Gamma correction. Correction patterns are: "Normal", "Soft", "Sharp", "Custom", or "Download".

DTC Variance

This option specifies the value for adjusting the variance based on the brightness of the image.

All Rights Reserved Copyright 2006 © PFULIMITED

Edge Processing

This option specifies the sharpness of contour extraction.

Low, Mid, High	Emphasizes contour of images. Available settings are: Low, Mid, High
Smoothing	Smoothes jaggy images.

Dropout Color

This option excludes selected color (the three primary colors of light i.e. green, red, blue) from scanned images. For example, if the document contains black text in a red frame and when the red color is selected, the scanner reads only the text and eliminate (drop out) the red frame.
If you do not wish to have any colors dropped out select "None".

Reverse

Colors of scanned images are reversed.

Multi feed Detection

Detects Multi feeds (phenomena that two or more sheets are accidentally fed). You can set conditions for detecting Multi feeds so that the scanner should stop and display error messages. Multi feeds are scanned by the differences in document lengths or thicknesses.

All Rights Reserved Copyright 2006 © PFULIMITED

fi-5120C / fi-5220C Image Scanner Operator Guide

PREFACE | CHAPTER 1 | CHAPTER 2 | CHAPTER 3 | CHAPTER 4
CHAPTER 5 | CHAPTER 6 | CHAPTER 7 | CHAPTER 8 | APPENDIX

TROUBLE SHOOTING
CONTENTS MAP
TOP

Chapter 3 SCANNING VARIOUS TYPES OF DOCUMENTS

Prev Next

This chapter describes how to scan various types of documents.

In this chapter Windows XP screenshots are illustrated.
The screens and operations may differ slightly if the OS that you are using is other than Windows XP.
Also, when FUJITSU TWAIN32 or FUJITSU ISIS is updated the screens and operations noted in this chapter will differ slightly.

All Rights Reserved Copyright 2006 © PFULIMITED

3.1 Scanning Double Sided Docments (1)

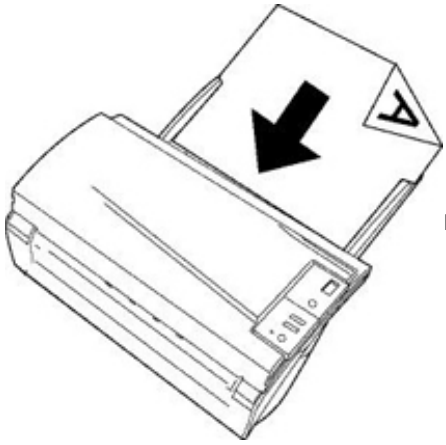
Prev Next

1 2

The following shows the procedure for reading the double sided documents.

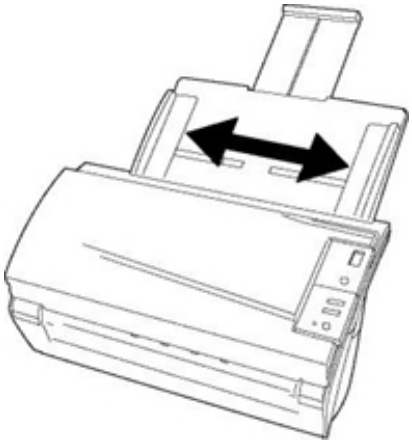
1. Load the document on the ADF paper chute.

For details on how to load documents, see "2.2 Loading Documents on the ADF for Scanning".



Load the doccument facing the ADF paper chute (face down).

2. Adjust the side guides to the width of the documents.



3. Start up ScandAll 21.

From [Start] menu, select [Program] - [Scanner Utility for Microsoft Windows] - [ScandAll 21]. This starts up ScandAll 21.

4. Select fi-5120C or fi-5220C.

From the [Scan] menu, select [Select Source]. Then select the scanner to use and click the [Select] button.

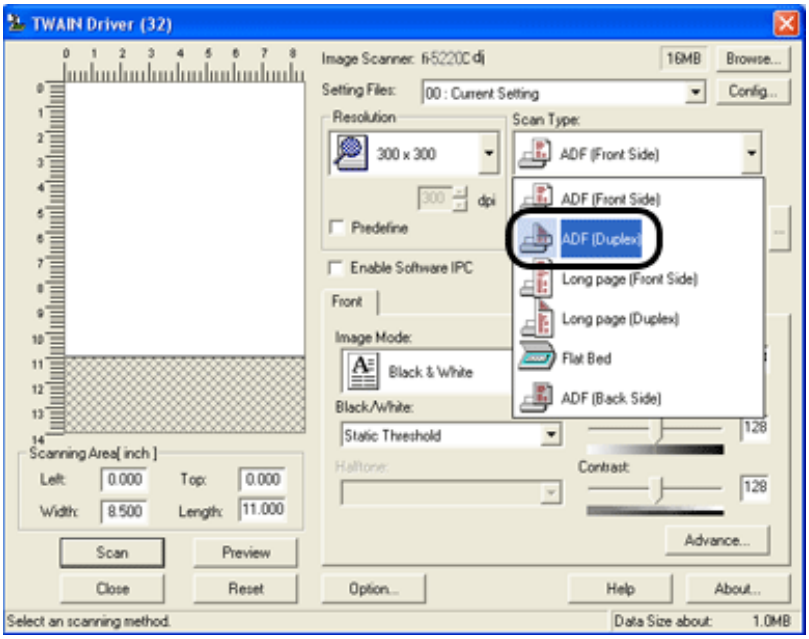
5. Click [Scan To View] on the tool bar. The [TWAIN Driver] dialogbox appears.

3.1 Scanning Double Sided Docments (2)

Prev Next

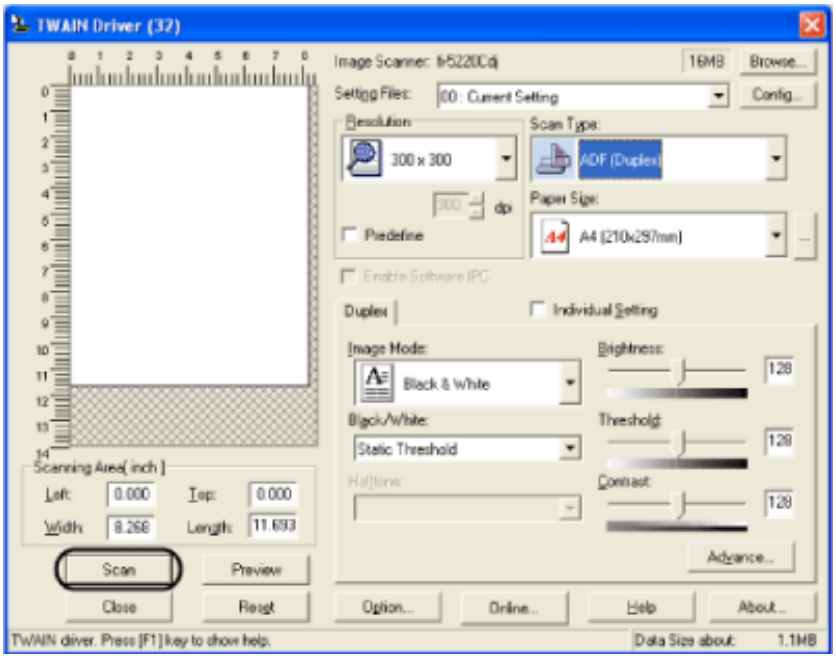
1 2

6. Select [ADF (Duplex)] from [Scan Type].



7. Click the [Scan] button.

For [TWAIN Driver] dialog box setting, refer to "2.5 How to Use the Scanner Driver".



➡The document is scanned, and an image of the scanned document appears on the ScandAll 21 screen. For ScandAll functions and operation, refer to [ScandAll 21 Help].

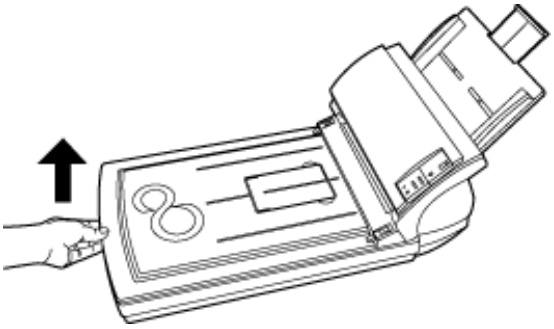
fi-5120C / fi-5220C Image Scanner Operator Guide

3.2 Scanning Books [fi-5220C only] (1)

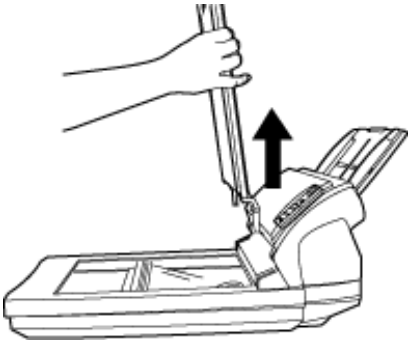
CAUTION

Never look directly the light source during scanning.

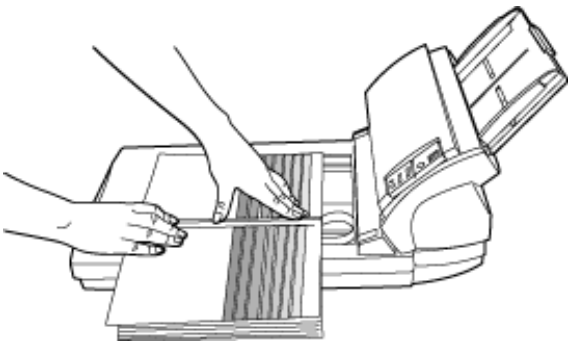
1. Open the document cover.



2. Remove the document cover as shown in the figure below.



3. Read the document on the document bed face down.



All Rights Reserved Copyright 2006 © PFULIMITED

4. Refer to "2.4 Scanning Documents" and perform the scanning.

ATTENTION

Do not move the document during scanning.

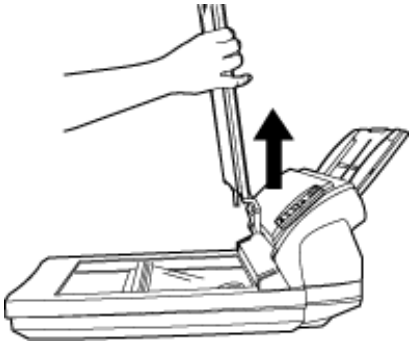
5. When scanning ends, re-attach and gently close the document cover.

All Rights Reserved Copyright 2006 © PFULIMITED

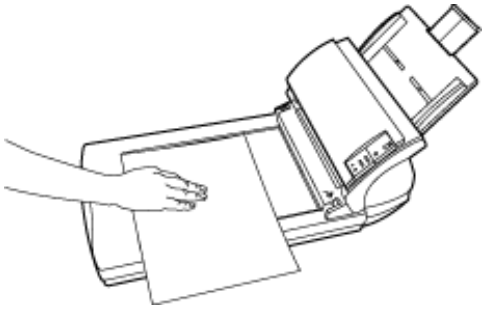
3.3 Scanning Large Documents with Flatbed [fi-5220C only]

Prev Next

1. Remove the document cover as shown in the figure below.



2. Load the document on the document bed face down.



3. Refer to "2.4 Scanning Documents" and perform the scanning.

ATTENTION

Do not move the document during scanning.

4. When scanning ends, re-attach and gently close the document cover.

All Rights Reserved Copyright 2006 © PFULIMITED

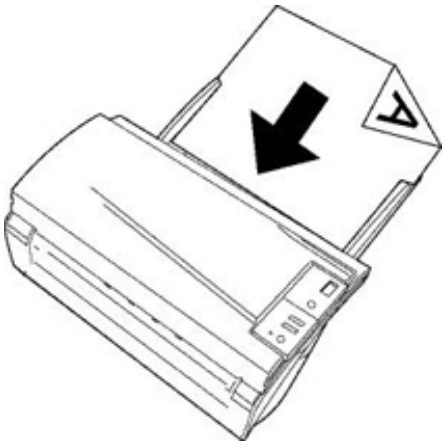
3.4 Scanning Documents longer than A4 size (1)

Prev Next

1 | 2 | 3

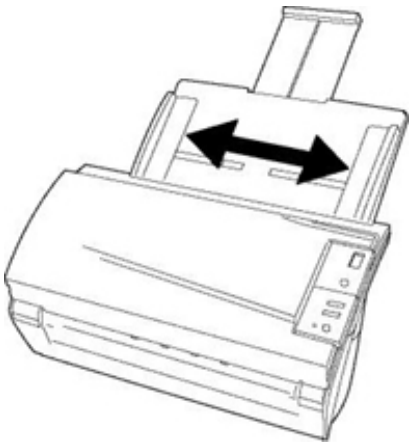
1. Load the documents on the ADF paper chute.

For details on loading documents, refer to "2.2 Loading Documents on the ADF for Scanning".



Load the document facing the ADF paper chute. (face down)

2. Adjust the side guides to the document width.



3. Start up ScandAll 21.

For starting up ScandAll 21, select [Programs] - [Scanner Utility for Microsoft Windows] - [ScandAll 21] from [Start].

4. Select fi-5120C or fi-5220C.

From the [Scan] menu, select [Select Source]. Then select the scanner to use and click the [Select] button.

5. Click [Scan To View] on the tool bar.

➡The [TWAIN Driver] dialogbox appears.

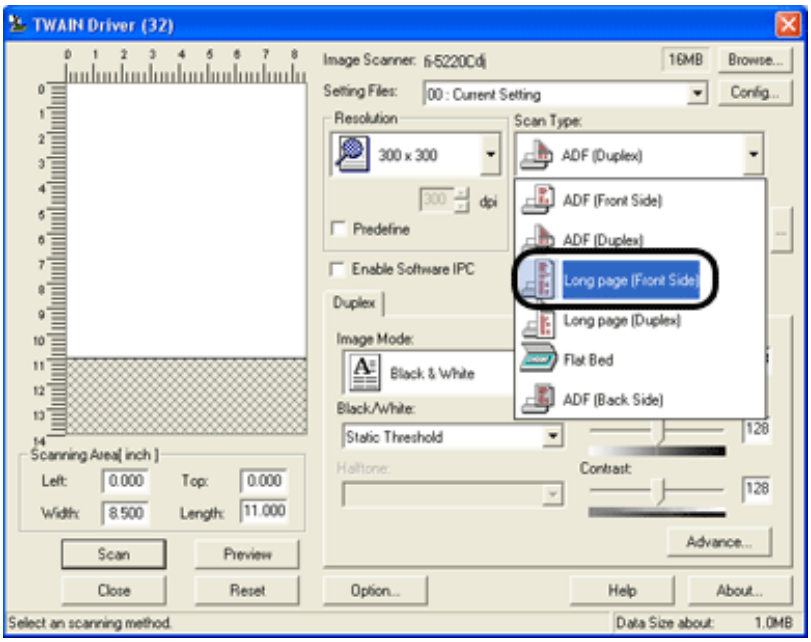
1 | 2 | 3

3.4 Scanning Documents longer than A4 size (2)

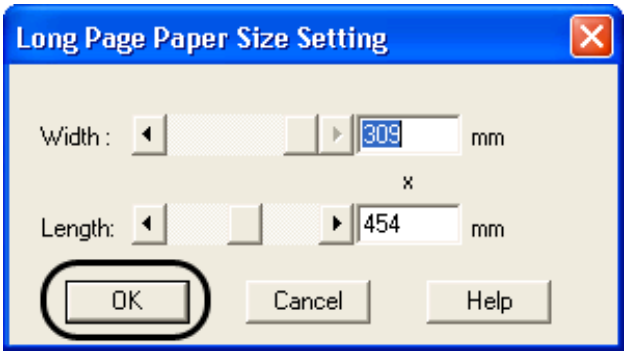
Prev Next

1 | 2 | 3

6. Select [Long page (Front Side)] or [Long page (Duplex)] from [Scan Type].



7. Specify the length of documents and then click the [OK] button.



1 | 2 | 3

All Rights Reserved Copyright 2006 © PFULIMITED

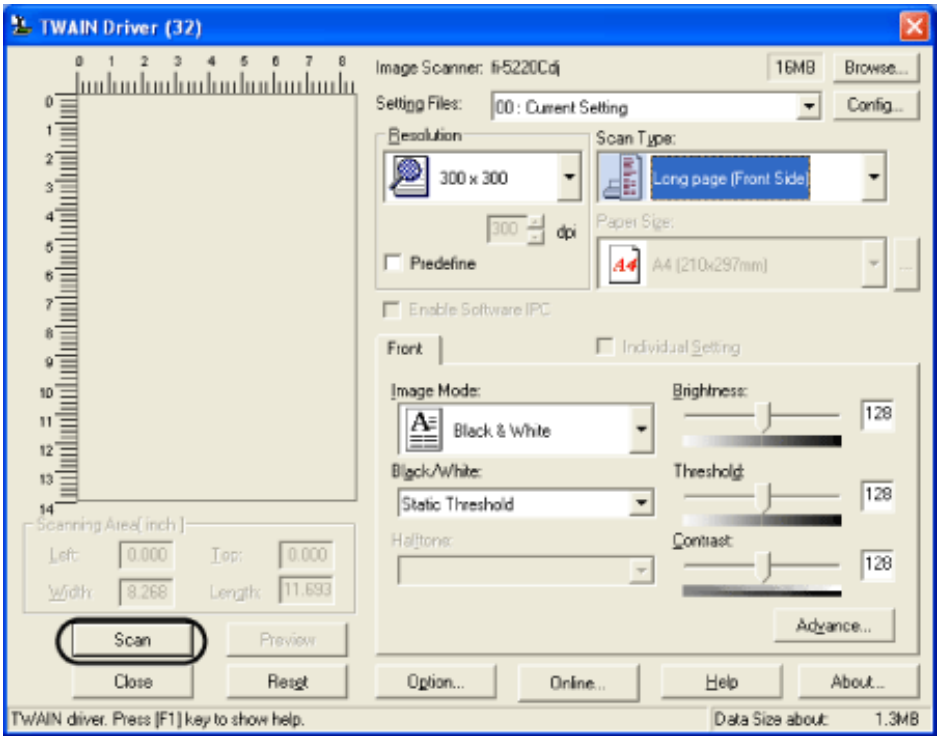
3.4 Scanning Documents longer than A4 size (3)

Prev Next

1 | 2 | 3

8. Click the [Scan] button.

For settings in the [TWAIN Driver] dialogbox, refer to "2.5 How to Use the Scanner Driver" .



Images of scanned documents are displayed on the window of ScandAll 21.
For details on functions and operations of ScandAll 21, refer to "ScandAll 21 Help".

1 | 2 | 3

All Rights Reserved Copyright 2006 © PFULIMITED

3.5 Scanning Different-width Documents

Prev Next

When you scan a batch of documents with different widths by using the ADF, you may get skewed images from smaller sized documents.
Be sure to scan only documents of the same width together.
The following shows the procedure for scanning a batch of mixed size documents.

1. **Sort out the batch into stacks of the same width.**

2. **Adjust the side guides to the width of each document stack.**

3. **Scan the batches of the same widths separately one by one.**

For details on how to scan documents, see "2.4 Scanning Documents".

All Rights Reserved Copyright 2006 © PFULIMITED

3.6 Saving Scanned Images in PDF Format (1)

To save scanned images in PDF format, Adobe Acrobat must be installed on your PC. Adobe Acrobat can be installed from the provided Adobe Acrobat CD-ROM.

There are 2 ways for saving scanned images in PDF format.

1. **Using ScandAll 21**

   This method is recommended for color or grayscale scanning and when smaller PDF file size is required.

   The benefits are:

   - Reduced PDF data size
   - Simplified method for creating PDF files with no troublesome operations

2. **Using Adobe Acrobat**

   This method is recommended for faster creation of PDF files and for black and white scanning.

   The benefits are:

   - Quick creation of PDF files with the original scan resolution
   - Flexibile creation of PDF files by changing the PDF compression rates

   Grayscale or color scanning creates larger file sizes than black and white scanning.
   If the file size is very large, you can reduce the file size by configuring the properties of Acrobat Distiller before saving scanned images.
   For details, please refer to the hints.

ATTENTION

Notes for using Adobe Acrobat

- Acrobat's default settings overrides the previous settings for "Resolution", "Scan Type" and "Image Mode".
- The following functions cannot be used:
  - "256 Color" or "8 Color"
  - "Rotation Degree" selection when "End of Page Detection" is selected
  - Long Page Scanning
- When scanning a paper document and converting the image to PDF using Acrobat, unexpected images may be output when:
  1. Setting "Edge Shadow Removal" in Acrobat, and setting "Digital Endorser" or "Black Background" options in the TWAIN driver at the same time. Letter strings embedded in the image or the background may be missed.
     Solution 1: Set "Edge shadow removal" to "OFF" or set any option other than "Adaptive" for "Color/Grayscale" and/or "Monochrome" under "Compression" by selecting [File] - [Create PDF] - [From Scannerc] - [Image Settingsc] in Acrobat.
     Solution 2: Adjust the scanning density in the TWAIN driver.
  2. Setting "Adaptive" for "Color/Grayscale" and/or "Monochrome" under "Compression" in Acrobat and scanning in a resolution lower than the resolution recommended for Acrobat.
     Solution: Set OPTION to something other than "Adaptive" under "Compression."
  3. Scanning a document longer than the double letter (11x17) or A3 size, when setting "Overscan" in the TWAIN driver, the scan may fail.
     Solution: When scanning a double letter (11x17) or A3 size of document, do not set "Overscan" in TWAIN driver.

  *As for detailed usage and information of Acrobat, refer to "Create a PDF file from a scanned document" in Acrobat Help.

All Rights Reserved Copyright 2006 © PFULIMITED

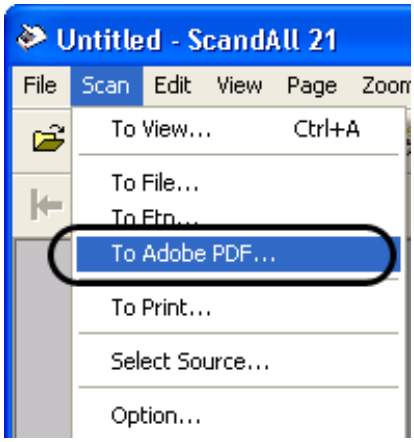
Using ScandAll 21

1. Load the documents on the ADF paper chute or flatbed.

2. Start up ScandAll 21..

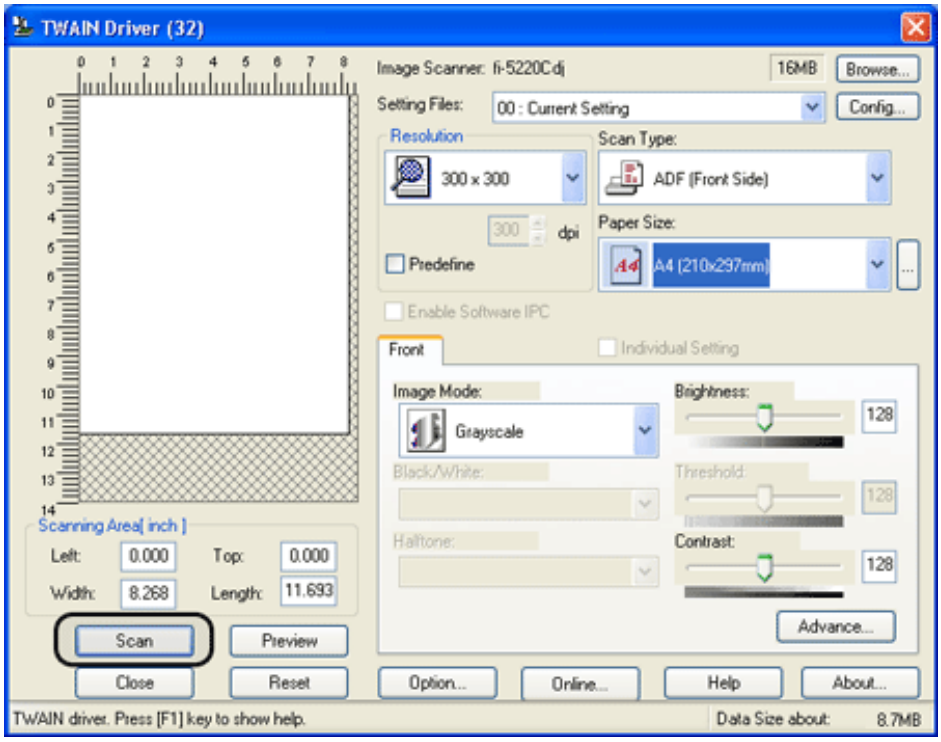
From [Start] menu, select [Program] - [Scanner Utility for Microsoft Windows] - [ScandAll 21]. This starts up ScandAll 21.

3. From the menu bar select [Scan] and then [To Adobe PDF] from the pull down menu.



"TWAIN Driver" dialog box is displayed.

4. Select the scan resolution, document size and other scan conditions, and then click the [Scan] button.



All Rights Reserved Copyright 2006 © PFULIMITED

3.6 Saving Scanned Images in PDF Format (3)

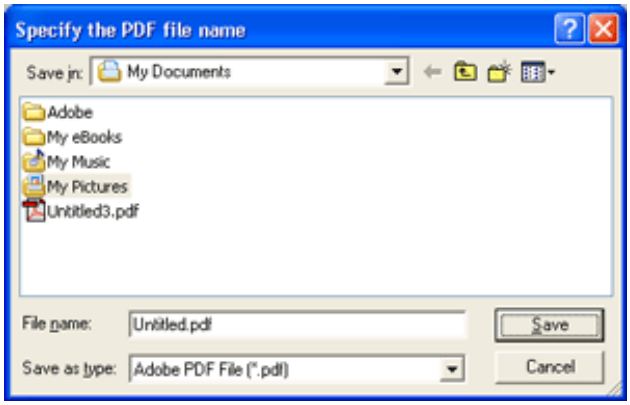
Prev Next

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

5. To end scanning, click the [Close] button.

6. Enter the file name and select the destination to save the scanned image.

For details, refer to ScandAll 21 Help.



1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

All Rights Reserved Copyright 2006 © PFULIMITED

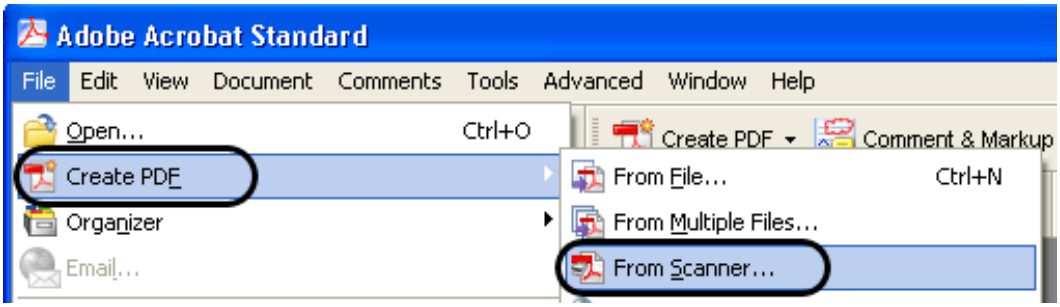
Using Adobe Acrobat

1. Load the documents on the ADF paper chute or flatbed.

2. Start up Adobe Acrobat.

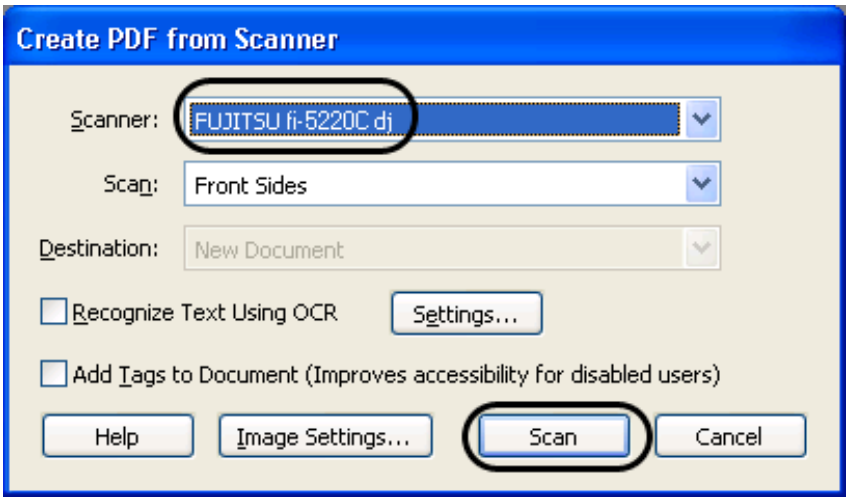
Select [All Programs] - [Adobe Acrobat] from the [Start] menu. This starts up Adobe Acrobat.

3. From the [File] menu select [Create PDF] - [From Scanner].



"Acrobat Scan Plug-in"dialog box is displayed.

4. Select "FUJITSU fi-5120Cdj or "FUJITSU fi-5220Cdj" at [Scanner] and click [Scan] button.



ATTENTION

The image may be generated in poor quality when scanning with the default settings.
It is recommended to change the settings with the following procedure.

1. Uncheck "Recognize Text Using OCR".
2. Click the [Image Settings...] button.
   The "Image Settings" dialog box appears.
3. Change the following items as showing below.

- Color/Grayscale: none
- Monochrome: JBIG2 or CCITT Group 4
- Background removal: Off
- Edge shadow removal: Off

TWAIN driver" dialog box is displayed.

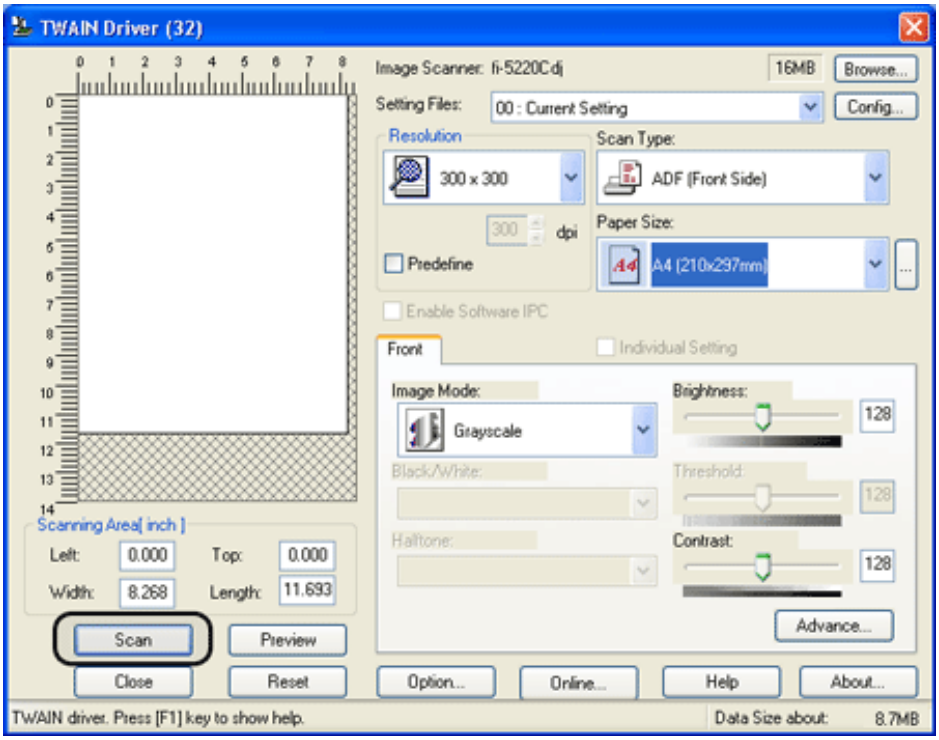
All Rights Reserved Copyright 2006 © PFULIMITED

3.6 Saving Scanned Images in PDF Format (5)

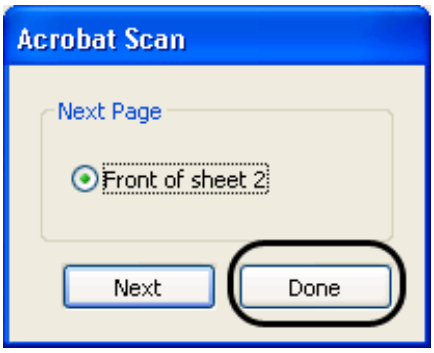
Prev Next

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

5. Select the scan resolution, document size and other scan conditions, and click the [Scan] button.



6. To end scanning, click the [Done] button.



1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

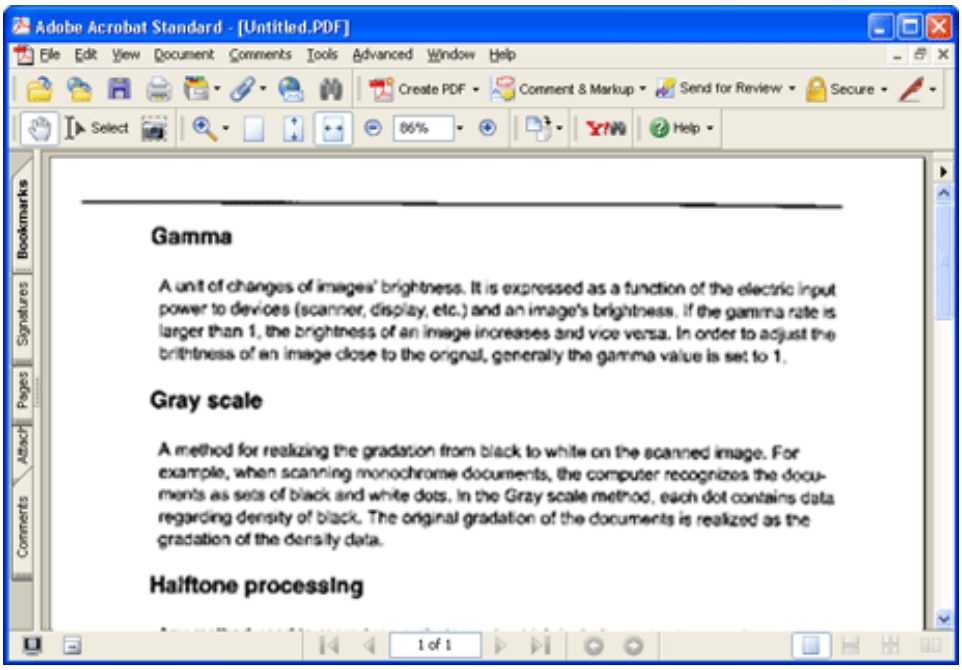
All Rights Reserved Copyright 2006 © PFULIMITED

3.6 Saving Scanned Images in PDF Format (6)

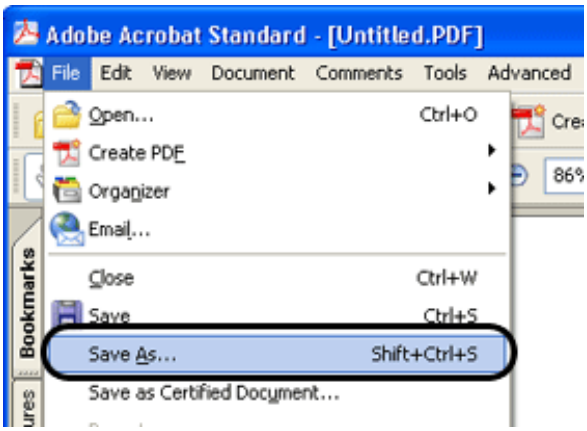
Prev Next

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

➡ The scanned image is displayed.


Adobe Acrobat Standard - [Untitled.PDF]
Gamma
A unit of changes of images' brightness. It is expressed as a function of the electric input power to devices (scanner, display, etc.) and an image's brightness. If the gamma rate is larger than 1, the brightness of an image increases and vice versa. In order to adjust the brightness of an image close to the original, generally the gamma value is set to 1.
Gray scale
A method for realizing the gradation from black to white on the scanned image. For example, when scanning monochrome documents, the computer recognizes the documents as sets of black and white dots. In the Gray scale method, each dot contains data regarding density of black. The original gradation of the documents is realized as the gradation of the density data.
Halftone processing

7. Select [Save as...] or [Save] from [File] menu to save the scanned image.



For the details on Adobe Acrobat operations, refer to the Adobe Acrobat manual and Help.

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

All Rights Reserved Copyright 2006 © PFULIMITED

3.6 Saving Scanned Images in PDF Format (7)

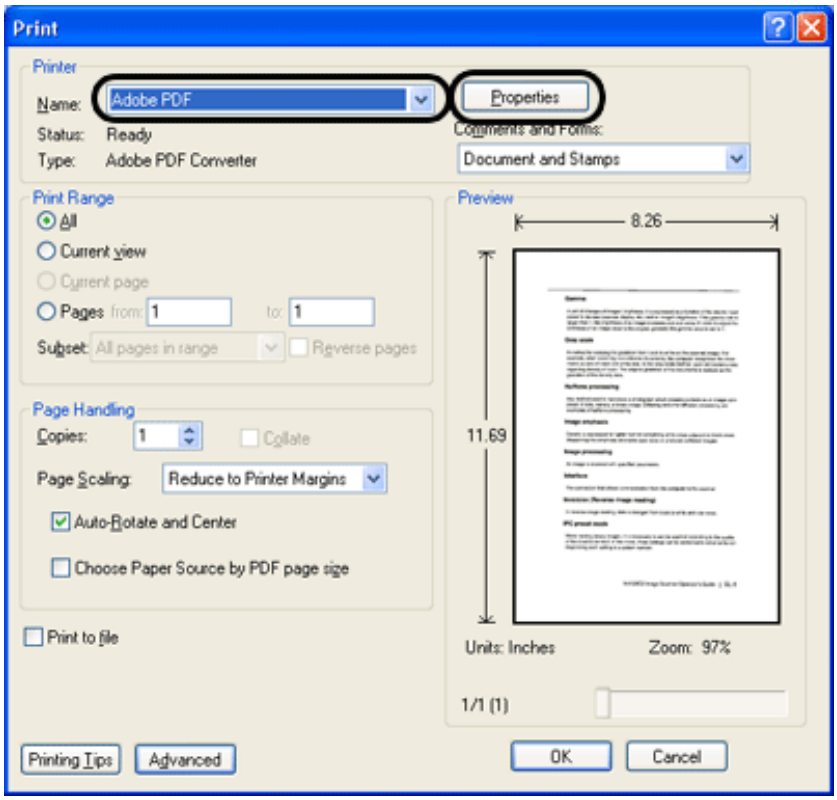
Prev Next

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

HINT

If you save scanned documents using this procedure, the file size may increase. For reducing the file size, please follow the procedure below. (It may take more time than usual)

1. Select [File] - [Print...].
2. On the following dialog specify [Adobe PDF] for [Name].



3. Click the [Properties] button.
4. Click the [Adobe PDF settings] tab.

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

All Rights Reserved Copyright 2006 © PFULIMITED

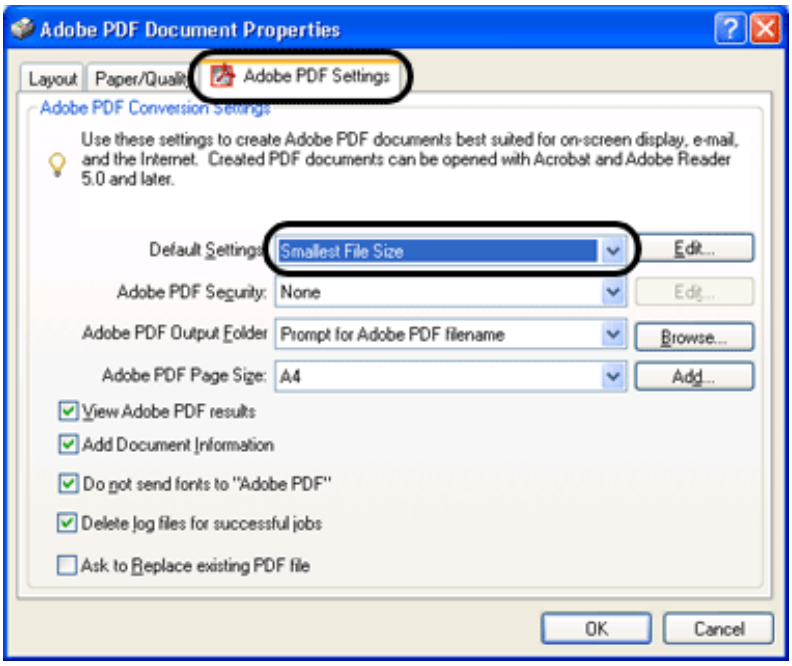
3.6 Saving Scanned Images in PDF Format (8)

Prev Next

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

HINT

5. Select one from [Default Settings].
   The following shows an example of [Smallest File Size].


Adobe PDF Document Properties
Layout
Paper/Quality
Adobe PDF Settings
Adobe PDF Conversion Settings
Use these settings to create Adobe PDF documents best suited for on-screen display, e-mail, and the Internet. Created PDF documents can be opened with Acrobat and Adobe Reader 5.0 and later.
Default Settings:
Smallest File Size
Edit...
Adobe PDF Security:
None
Edit...
Adobe PDF Output Folder:
Prompt for Adobe PDF filename
Browse...
Adobe PDF Page Size:
A4
Add...
View Adobe PDF results
Add Document Information
Do not send fonts to "Adobe PDF"
Delete log files for successful jobs
Ask to Replace existing PDF file
OK
Cancel

6. Click [OK] button.
7. Enter a file name and click the [Save] button on the [Save PDF File As] dialogbox.

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

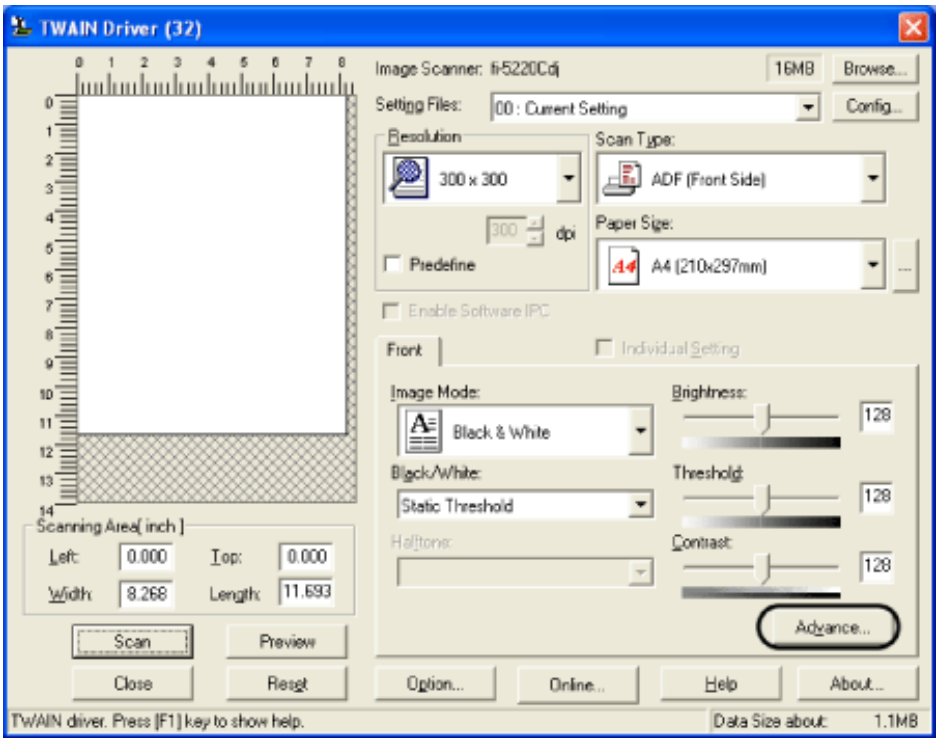
All Rights Reserved Copyright 2006 © PFULIMITED

3.7 Excluding a Color in the Image (dropout color)

Prev Next

A selected color (primary colors: red, green or blue) can be removed (dropped out) from the scanned image data.
For example, if the document contains black text in a green frame, you can set the scanner to read only the text and eliminate (drop out) the green frame.To set the scanner to drop out a color, change the settings in the [TWAIN Driver] dialogbox before scanning.

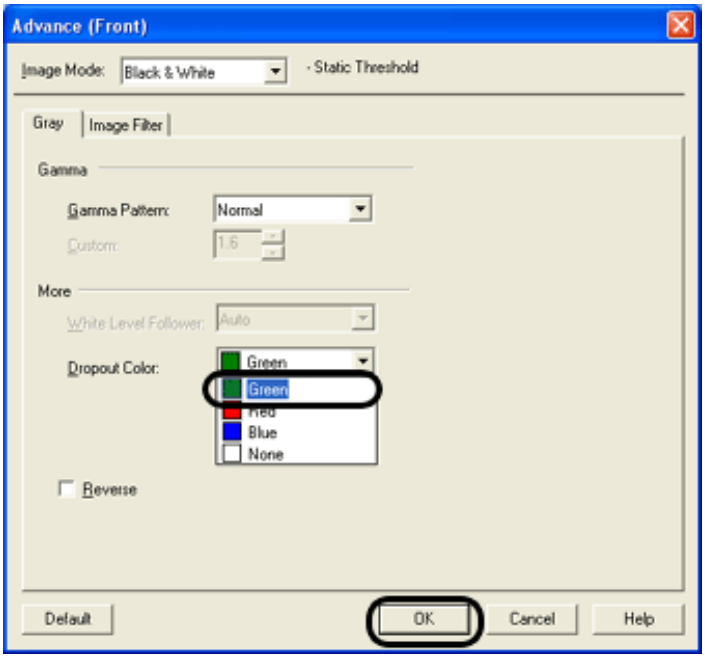
1. **Click the [Advance...] button in the [TWAIN Driver] dialogbox.**



➡The [Advance] dialogbox appears.

2. **Select the color to be drop out from [Dropout Color] under "More".**

For example, if the document contains black text in green frame, select [Green] so that the scanner only reads the text and eliminates the frames. If you do not wish to have any colors dropped out select [None].



3. Click the [OK] button.

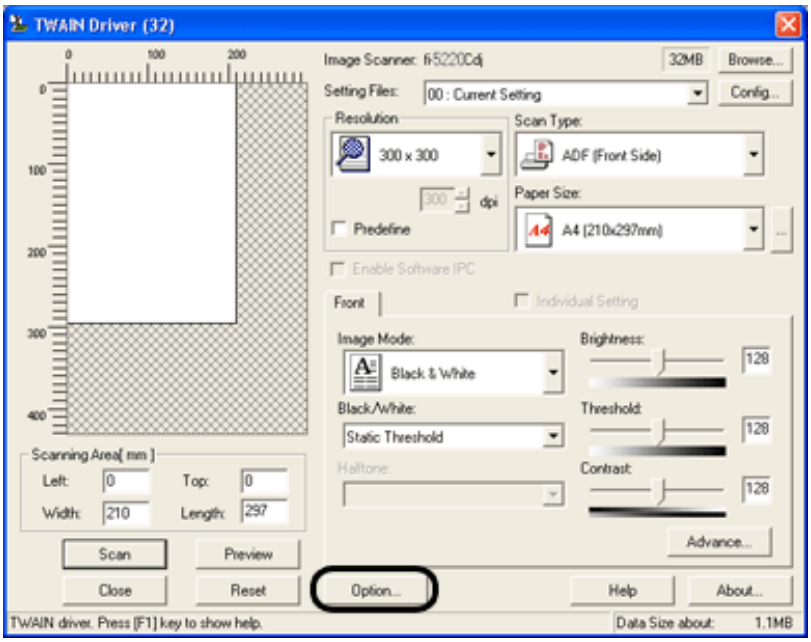
The [TWAIN Driver] dialog box will be redisplayed. Continue scanning from this dialog box.

All Rights Reserved Copyright 2006 © PFULIMITED

3.8 Skipping blank pages (1)

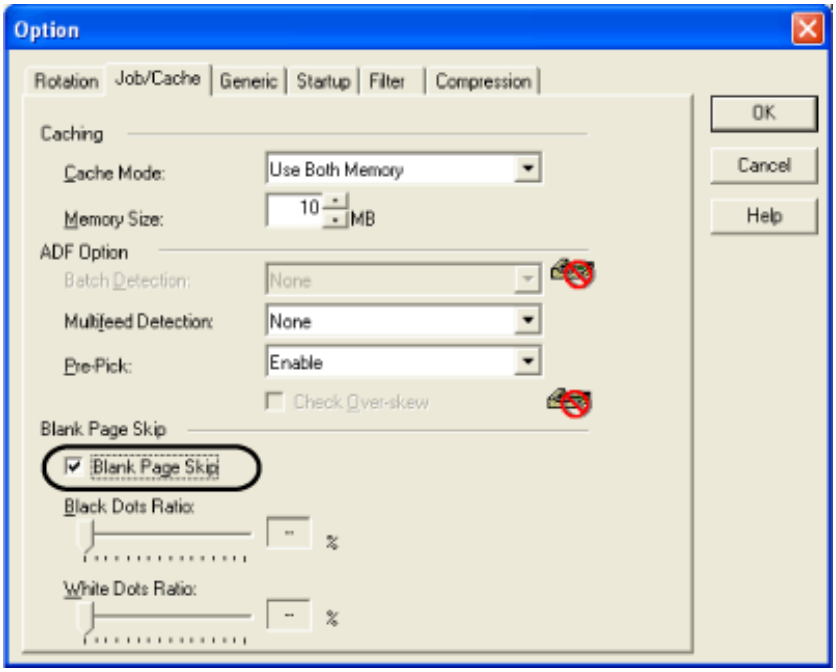
Change settings in the [TWAIN Driver] dialog box for skipping blank pages at scanning documents.

1. **Click [Option] button in the [TWAIN Driver] dialogbox.**



➡ The [Option] dialogbox appears.

2. **Click the [Job/Cache] tab.**



3.8 Skipping blank pages (2)

Prev Next

1 2

3. Check the [Blank Page Skip] box.

If an item other than "Ram cache" or "Use Both Memory" has been selected in the [Cache Mode:] and this check box is marked, it will change to "Ram cache".

4. With the slider control under [Blank Page Skip], specify the Blank Page Skip degree.

In Binary/Halftone mode

For white pages, use the **[Black Dots Ratio]** slider bar to set the skip condition. For black pages, use the **[White Dots Ratio]** scroll bar to set the skip condition.
The value displayed to the right of the scroll bar displays the noise ratio(*1). If a scanned document is below this value, it is recognized as a blank page. The setting range is OFF(- -) and 0.2% to 3.0% (in increments of 0.2%).

*1: Ratio of black dots included in the scanning area. (for white pages)

In Color/Grayscale mode

Use the slider bar to set the skip condition in five stages from 1 to 5. To make the blank pages easy to skip, increase the value of the setting.

1 2

All Rights Reserved Copyright 2006 © PFULIMITED

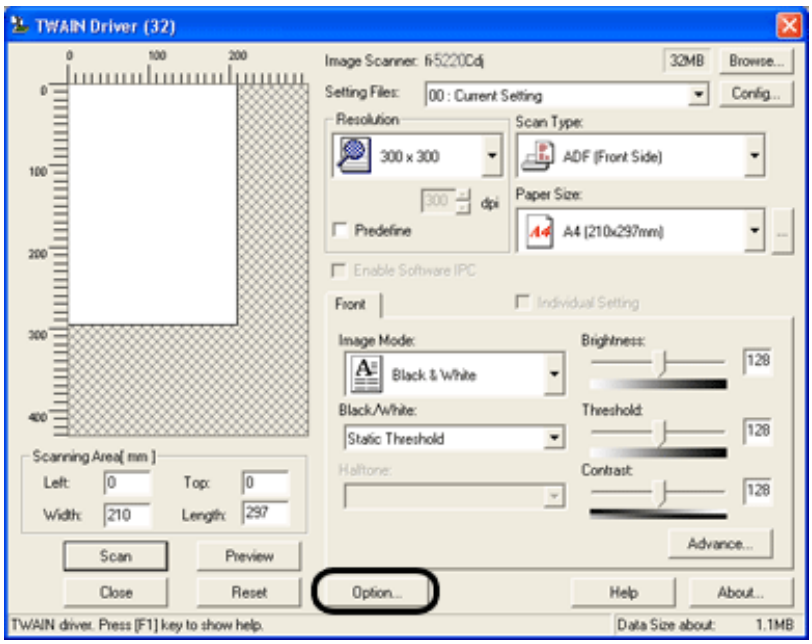
3.9 Detecting Multi feeds (1)

Prev Next

1 | 2 | 3 | 4 | 5 | 6

"Multi feed" is a feeding error that occurs when two or more sheets in the ADF paper chute are fed simultaneously into the scanner.
You can set the scanner to detect multi feed, stop scanner operation, and display an error message.
To set the scanner to detect multi feed, change the settings in the [TWAIN Driver] dialogbox.

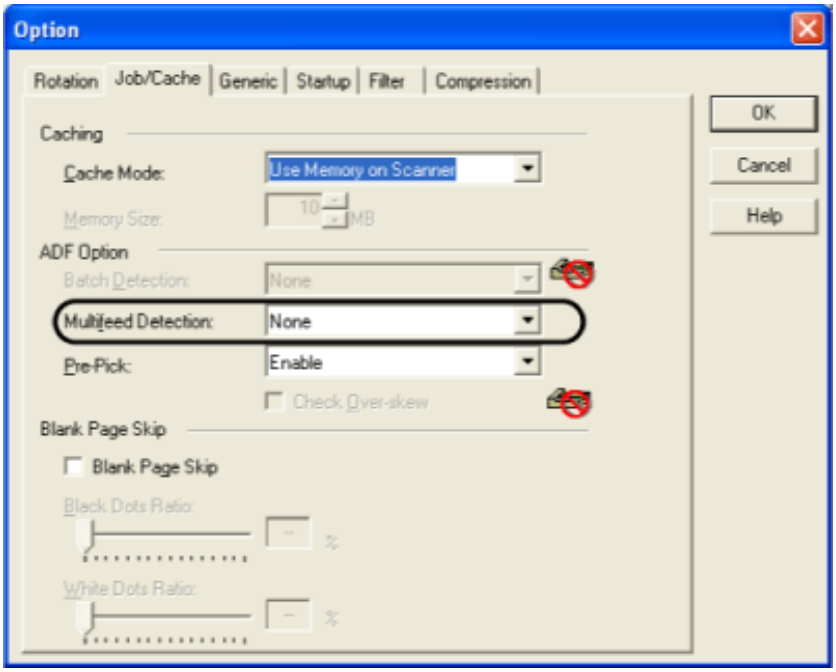
1. **Click the [Option...] button in the [TWAIN Driver] dialogbox.**



➡The [Option] dialog box appears.

2. **Click the [Job/Cache] tab.**

3. **Select the detection conditions from "Multi Feed Detection" under "ADF Option".**



All Rights Reserved Copyright 2006 © PFULIMITED

The following detection conditions are provided:

None	Multi feed detection is not performed.
Check overlapping	The scanner monitors the overlapping of documents. The scanner detects a multi feed by the differences in ultrasonic propagation.
Check length	The scanner monitors the length of documents. It detects a multi feed by the differences in the document length.
Check overlapping and length:	The scanner monitors both document overlapping and length to detect multi feed.

Furthermore, see "7.5 Multi feed Detection Conditions" for detailed information about the document for multi feed detection.

4. Click the [OK] button.

The display returns to the [TWAIN Driver] dialogbox. Continue scanning from this dialogbox.

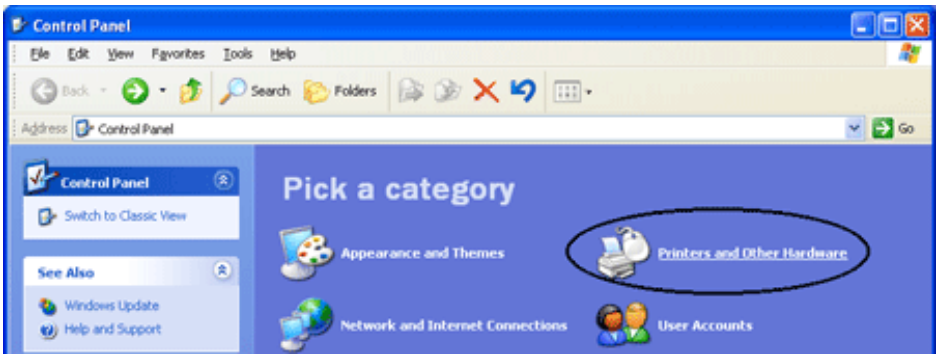
To Specify the Area for Multi feed Detection

By default multi feed detection will monitor paper overlap over the central column (width: 35mm) of the document to be scanned (See "Multi feed detection monitoring area" illustration on section 7.5.). This may cause to certain documents, such as resumes and postcards which are partially pasted with photographs or stamps, to be accidently recognized as being multi fed.
When scanning these kinds of documents, you can specify an exact detection or non-detection area (excluding the area containing the photograph or stamp) to prevent mis-detections. The procedure is as follows.

1. Open Scanner's Properties.

For Windows 98 / Windows Me / Windows 2000 / Windows XP

1) When turning on the power, check that the scanner is connected to your PC.
Refer to "2.2 Connecting the Scanner to a PC" in fi-5120C/fi-5220C Getting Started.
2) Double click the "Printer and Other Hardware" icon on the Control panel of your PC.



➡The [Printer and Other Hardware] window appears.

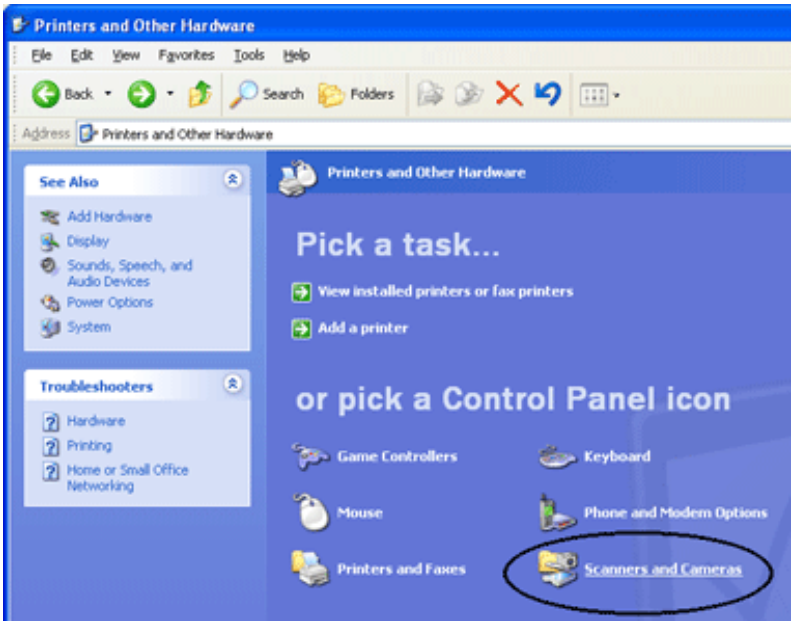
All Rights Reserved Copyright 2006 © PFULIMITED

3.9 Detecting Multi feeds (3)

Prev Next

1 | 2 | 3 | 4 | 5 | 6

3) On the [Printers and Other Hardware] window, double click the [Scanners and Cameras] icon.



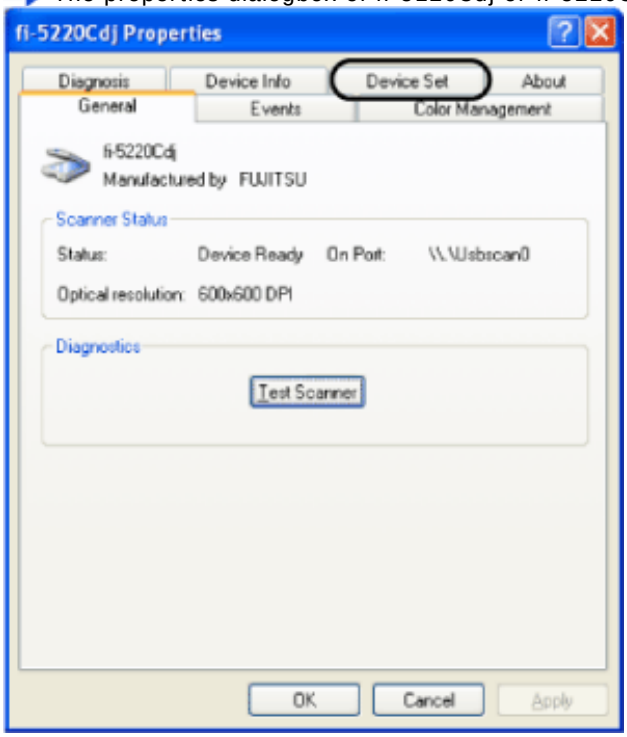
➡The [Scanners and Cameras] window is displayed.

4) Right click [fi-5120Cdj] or [fi-5220Cdj], and select [Properties] from the menu.

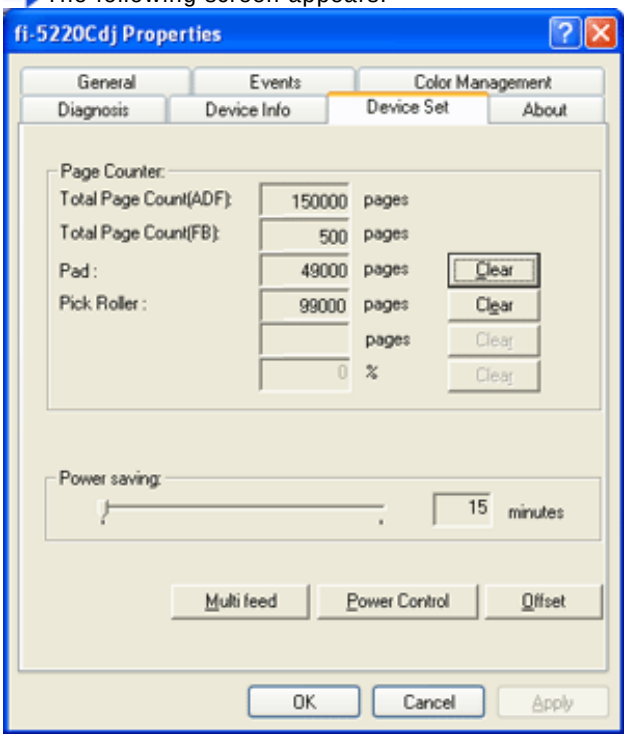
1 | 2 | 3 | 4 | 5 | 6

All Rights Reserved Copyright 2006 © PFULIMITED

➡ The properties dialogbox of fi-5120Cdj or fi-5220Cdj appears.



5) Click the "Device Set" tab.
➡ The following screen appears.



3.9 Detecting Multi feeds (5)

Prev Next

1 | 2 | 3 | 4 | 5 | 6

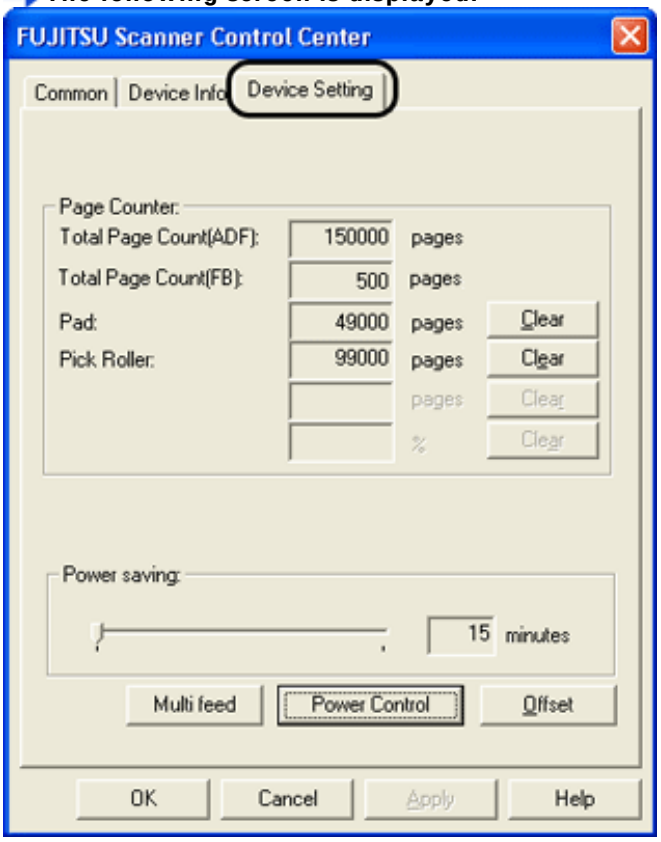
For Windows 95 / Windows NT 4.0

1) When turning on the power, check that the scanner is connected to your PC.

2) Right click the "FUJITSU Scanner Control Center" icon displayed in the task tray, then select "Option".

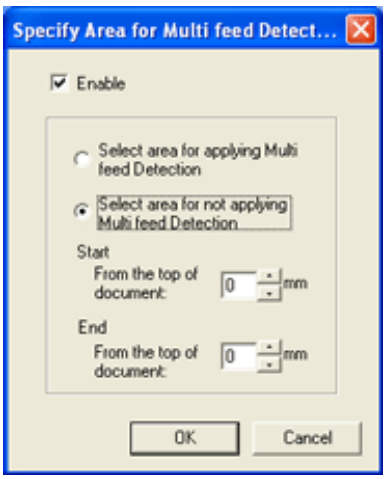
3) Click "Device Set" tab.

The following screen is displayed.



2. Click the [Multi feed] button.

The following screen is displayed.



3.9 Detecting Multi feeds (6)

Prev Next

1 | 2 | 3 | 4 | 5 | 6

3. Specify the settings on the "Area for Multi feed Detection..." screen.

1) Mark the "Enable" check box.

HINT

- **You can select an area meassured from the top of the document, for which the multi feed detection will be conducted (or not).**
- **If you do not mark the "Enabled" checkbox, multi feed detection will monitor the paper overlap over the central column (width: 35mm) of the document to be scanned (For details, see the illustration "Multi feed detection monitoring area" on section 7.5.). In this case, the settings for "Select Area to enable Multi feed Detection" / " Select Area to disable Multi feed Detection" will not be available.**

2) Select if the Multi Feed Detection shall be applied or not for a set area.

- **To specify an area for which the Multi Feed Detection will be conducted:**
  ➡check "Select area for applying Multi feed Detection."
- **To specify an area for which the Multi Feed Detection will NOT be conducted:**
  ➡ check "Select area for not applying Multi feed Detection."

3) Specify the "Start" of the area.
Enter the position from where the detection shall be started, meassured from the document's top edge.
(Possible values: 0 through 510mm; value of the even number)

4) Specify the "End" of the area.
Enter the position where the detection shall end, meassured from the document's top edge.
(Possible values: 0 through 510mm; value of the even number)

ATTENTION

The value for "End" must be larger than the value for "Start."

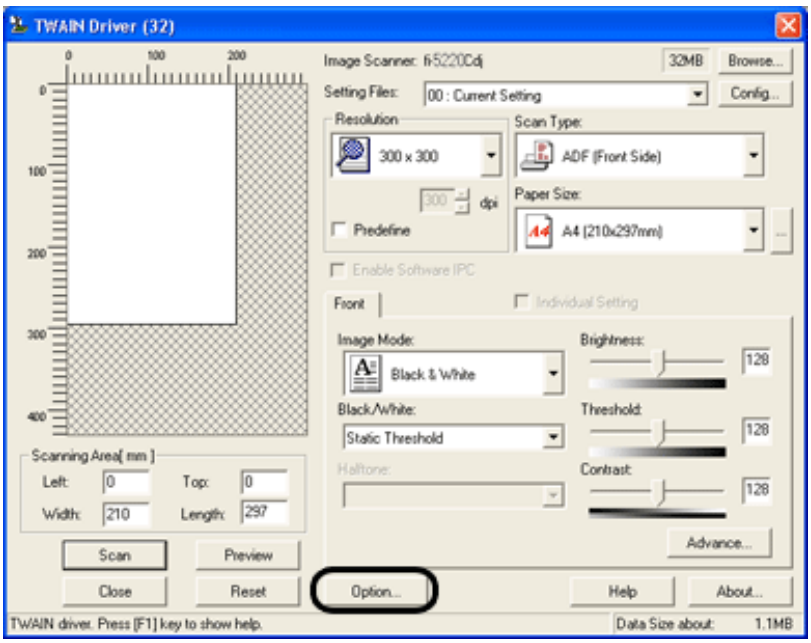
1 | 2 | 3 | 4 | 5 | 6

All Rights Reserved Copyright 2006 © PFULIMITED

3.10 Correcting skewed documents (1)

You can set the scanner so that skew of documents are detected and corrected automatically when skewed documents are fed into the ADF. Change the setting in the [TWAIN Driver] dialog box to enable this function. The following shows the procedure for changing the setting in the dialogbox:

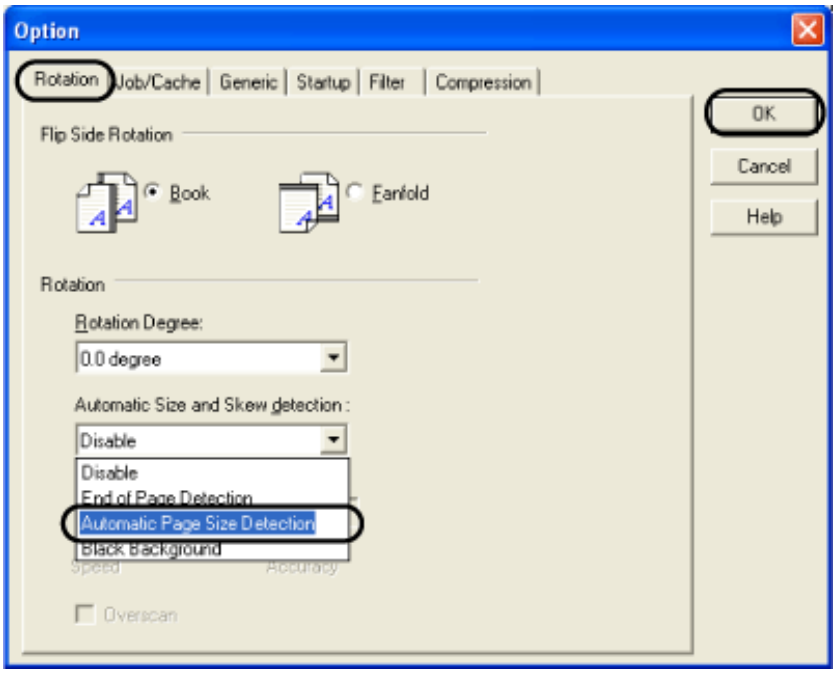
1. Click [Option] button in the [TWAIN Driver] dialogbox.



➡The [Option] dialog box appears.

2. Click the [Rotation] tab.

➡Select the [Automatic page size detection] from the [Automatic Size and Skew Detection] menu.



3.10 Correcting skewed documents (2)

Prev Next

1 2

3. Select the [Automatic Page Size Detection] from the "Automatic Size and Skew Detection" menu.

4. Click the [OK] button.

➡ The display returns to [TWAIN Driver] dialogbox.

HINT

With [Priority] slider control, you can change accuracy of Automatic Page Size Detection. Move the slider to the right when improving the detection accuracy. (Note that higher accuracy setting requires much more processing time and scanning speed becomes slower.)

ATTENTION

When using either of the following documents, the Automatic Page Size Detection may not function correctly:

- Paper of weight 52g/m^2 or less
- Not rectangular documents
- Documents which their margins are filled with dark colors

1 2

All Rights Reserved Copyright 2006 © PFULIMITED

fi-5120C / fi-5220C Image Scanner Operator Guide

PREFACE | CHAPTER 1 | CHAPTER 2 | CHAPTER 3 | CHAPTER 4
CHAPTER 5 | CHAPTER 6 | CHAPTER 7 | CHAPTER 8 | APPENDIX

TROUBLE SHOOTING
CONTENTS MAP
TOP

Chapter 4 DAILY CARE

Prev Next

This chapter describes how to clean the scanner.

WARNING

When operating the scanner, the ADF's glass becomes very hot.
Before you clean inside the scanner, turn off its power and unplug the AC adapter from the outlet. Wait for at least 15 minutes.
Do not turn off the scanner when you clean the Feed rollers

All Rights Reserved Copyright 2006 © PFULIMITED

4.1 Cleaning Materials and Locations requiring Cleaning

Prev Next

Cleaning Materials

The table below shows the cleaning materials that are used on this scanner.

Cleaning Materials	Part No.	Remarks
Cleaner F1 (or isopropyl alcohol) 	CA99501-0013	1 bottle (100 ml) Moisten cloth with this fluid and wipe the scanner clean.
Soft, dry cloth	Commercially available.	Any lint-free cloth can be used.

For details on Cleaner F1, consult the agent where you bought your scanne or an authorized FUJITSU service providerr.

Locations and Cycle for Cleaning

Location	Standard Cleaning Cycle
Pad ASSY	Clean every 1,000 scanned sheets.
Pick roller	
Feed roller	
Plastic roller	
Glass	
Document holding pad	
Document bed	

ATTENTION

The scanner must be cleaned more frequently when the following documents are used:

- Documents of coated paper
- Documents with printed text or graphics almost covering the entire surface
- Chemically treated documents such as carbonless paper
- Documents containing a large amount of calcium carbonate
- Documents written by pencil
- Documents on which the toner is not fused sufficiently

All Rights Reserved Copyright 2006 © PFULIMITED

4.2 Cleaning the Flatbed [fi-5220C only] (1)

Prev Next

1 2

ATTENTION

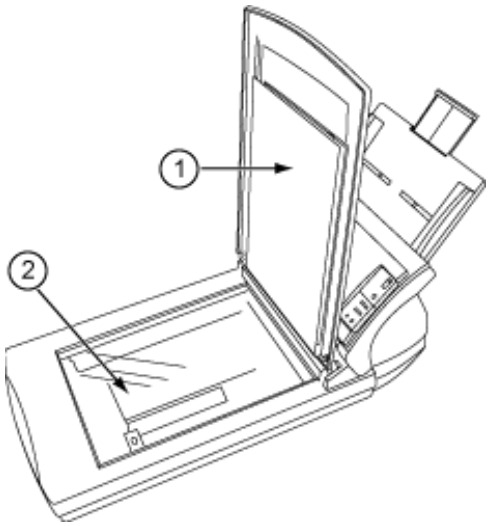
Detergent for cleaning windows or glass cleaner can be used instead of cleaner F1. However, do not use paint thinner or other organic solvents.

Cleaning the Flatbed

The following parts needs to be cleaned in the Flatbed area:

① :Document holding pad

② :Document bed

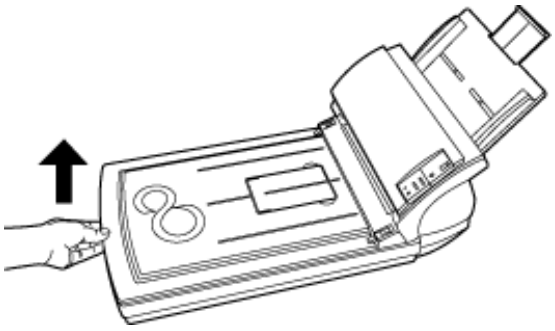


1 2

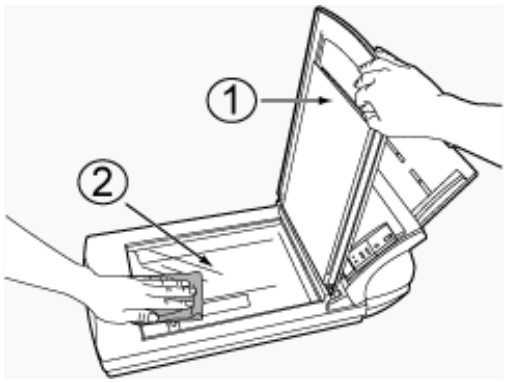
All Rights Reserved Copyright 2006 © PFULIMITED

4.2 Cleaning the Flatbed [fi-5220C only] (2)

1. Open the document cover.



2. Clean the following locations using a soft cloth moistened with cleaner F1.



① : Document holding pad.

② : Document bed.

ATTENTION

Do not allow moisture to get inside the device during cleaning.

3. Wait for cleaned parts to dry.

4. Gently close the document cover.

All Rights Reserved Copyright 2006 © PFULIMITED

4.3 Cleaning the ADF (1)

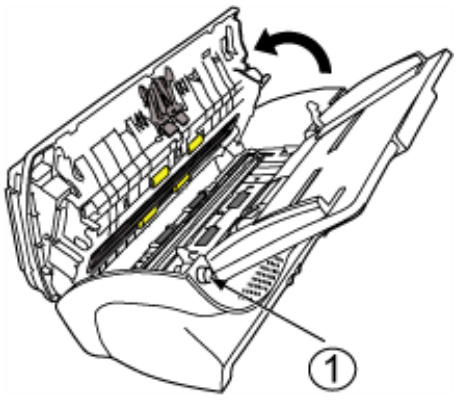
As a Guideline, clean the ADF every 1,000 scanned sheets. Note that this guideline varies according to the type of documents you scan. For example, it may be necessary to clean the ADF more frequently if documents are scanned when the toner is not sufficiently fixed on the printout.

CAUTION

The glass surface of the ADF becomes hot during the operation of the scanner.
Before you start to clean the inner parts of the scanner, disconnect the AC adapter from the power outlet, and wait at least 15 minutes to let the glass cool down.

Cleaning the ADF

1. Open the ADF by pushing on the ADF button and turning the ADF cover to the front.



① ADF button

CAUTION

Be careful, the ADF cover may close and pinch your finger.

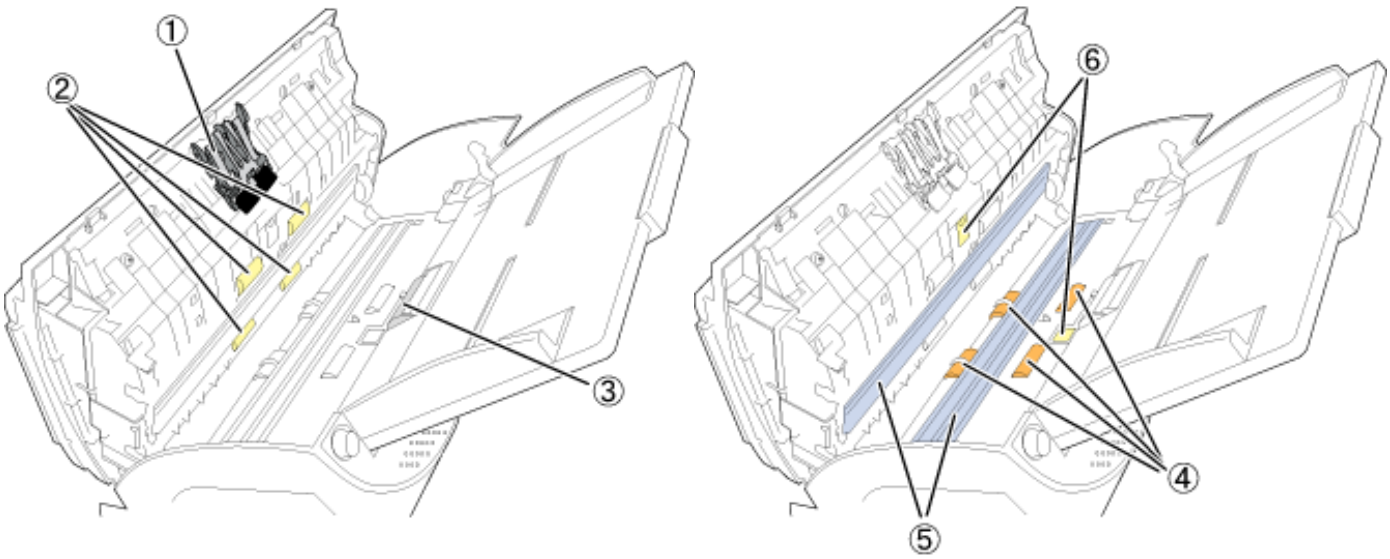
All Rights Reserved Copyright 2006 © PFULIMITED

4.3 Cleaning the ADF (2)

Prev Next

1 | 2 | 3 | 4

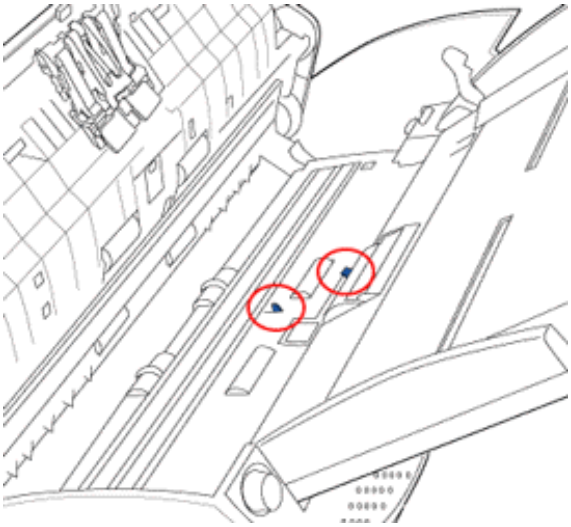
2. Clean the following locations with a soft, dry cloth moistened with Cleaner F1.



No.	Item
1	Pad ASSY (x 1)
2	Feed rollers (x4)
3	Pick roller (x1)
4	Plastic rollers (x 4)
5	Glass (x 2)
6	Ultrasonic sensors (x 2)

ATTENTION

To avoid damaging the document sensors, take care that the cloth does not get hooked into them when cleaning the inside of the ADF.

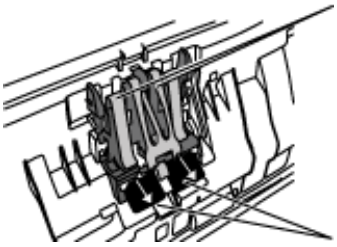


All Rights Reserved Copyright 2006 © PFULIMITED

4.3 Cleaning the ADF (3)

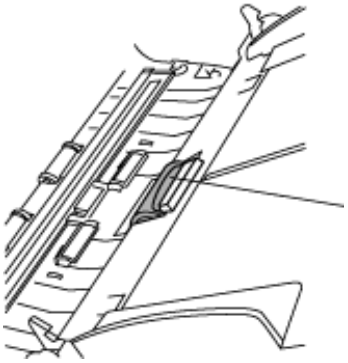
Pad ASSY

Clean the Pad ASSY (rubber surface) downwards (direction of arrow). Take care not to catch the pick springs to avoid bending.



Pick roller

Lightly clean the Pick roller taking care not to scratch the roller surface and the Mylar sheet. Take particular care in cleaning this roller as black debris on it adversely affects the pickup performance.



Plastic roller

Clean lightly taking care not to damage the surface of these rollers. Take particular care when cleaning these rollers as black debris matter on it affects document pick performance. Be careful no to damage the sponges beside the rollers.

Glass

Clean lightly.

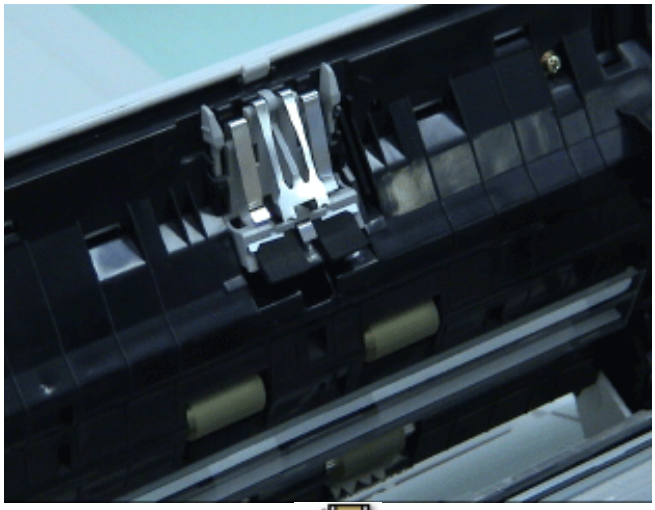
HINT

If the glass is dirty, vertical black streaks may apper in the scanned images.

Ultra sonic sensor

Clean lightly with a dry cloth.

With the movie below, review the procedure to clean the Pad ASSY, Pick roller, ADF glass surfaces and the Plastic rollers:



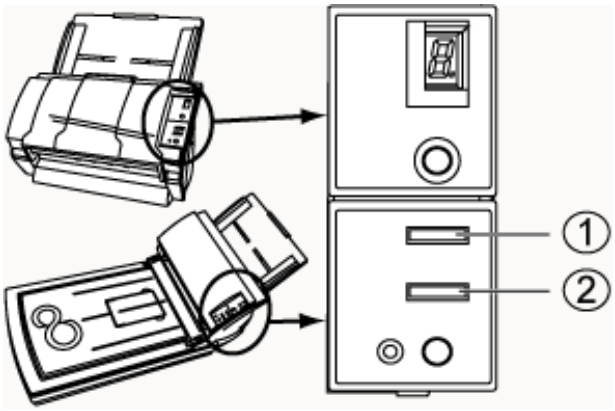
All Rights Reserved Copyright 2006 © PFULIMITED

4.3 Cleaning the ADF (4)

Feed roller

Clean lightly taking care not to roughen the surface of the rollers. Take particular care in cleaning the feed rollers since black debris on the rollers adversely affect the pickup performance.

1. Open the ADF when the indication of the Function Number display is not "P" or "0".
   If you open the ADF when the indication of the Function Number display is "P" or "0", the Feed rollers will not rotate even you perform the operation of step 2 below.
2. Simultaneously hold down the "Send to" and "Scan" buttons on the operator panel.
   The Feed rollers start to rotate slowly.
3. Hold a soft, cloth moistened with cleaning fluid against the surface of the rotating Feed rollers so that it lightly cleans the surface of the rollers. As a guideline, seven presses of the "Send to" and "Scan" buttons make the Feed rollers to rotate one full turn.

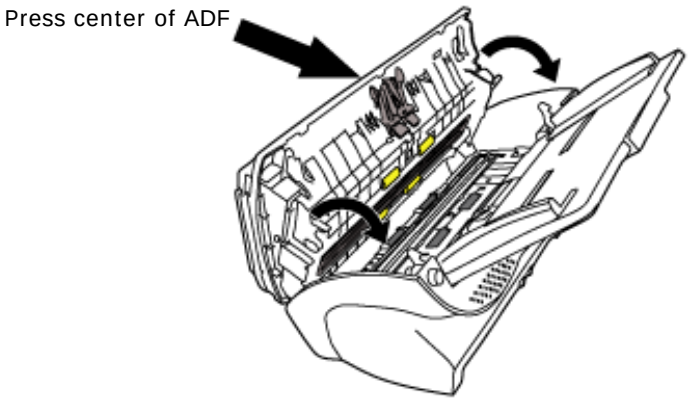


① :Button "Send to"
② :Button "Scan"

CAUTION
In step 2, all the Feed rollers turn at the same time. When cleaning the Feed rollers positioned in the lower part of the ADF, be caereful not to touch the other Feed rollers.

With the movie below, review the procedure to clean the Feed rollers:

3. Press down on the center of the ADF to return it to its original position until the ADF button locks.



ATTENTION

When the ADF has returned to its original position, make sure that it is completely closed. Paper jams or feeding errors may occur if the ADF is not closed completely.

All Rights Reserved Copyright 2006 © PFULIMITED

fi-5120C / fi-5220C Image Scanner Operator Guide

PREFACE | CHAPTER 1 | CHAPTER 2 | CHAPTER 3 | CHAPTER 4
CHAPTER 5 | CHAPTER 6 | CHAPTER 7 | CHAPTER 8 | APPENDIX

TROUBLE SHOOTING
CONTENTS MAP
TOP

Chapter 5 REPLACING CONSUMABLES

Prev Next

This chapter describes how to replace scanner consumables.

In this chapter Windows XP screenshots are illustrated.
The screens and operations may differ slightly if the OS that you are using is other than Windows XP.
Also, when FUJITSU TWAIN32 or FUJITSU ISIS is updated the screens and operations noted in this chapter will differ slightly.

WARNING

When operating the scanner, the ADFs inside glass becomes very hot.
Before you replace the consumables, turn off its power and unplug the AC adapter from the outlet. Wait for at least 15 minutes.

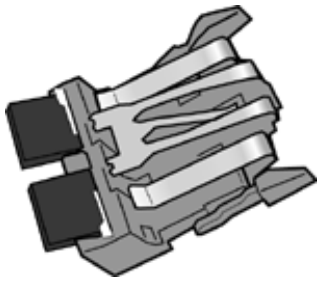
All Rights Reserved Copyright 2006 © PFULIMITED

5.1 Consumable and Replacement Cycle (1)

Prev Next

1 2 3 4 5 6

The following table shows the specifications of consumables and their standard replacement cycle.

Description	P/N	Standard Replacement Cycle
PAD ASSY 	PA03289-0111	50,000 sheets or one year
Pick roller	PA03289-0001	100,000 sheets or one year

The replacement cycles above are rough guidelines for the case of using A4/Letter woodfree or wood containing paper 64 g/m2 (17 lb). This cycle varies according to the type of the used paper and how frequently the scanner is used and cleaned.

ATTENTION

Use only the consumables specified by PFU LIMITED. Do not use consumables and parts made by other manufacturers.

To purchase the consumables, contact the FUJITSU scanner dealer where you purchased the scanner or an authorized FUJITSU scanner service provider.

1 2 3 4 5 6

All Rights Reserved Copyright 2006 © PFULIMITED

Guidelines for Consumable Replacement Cycle

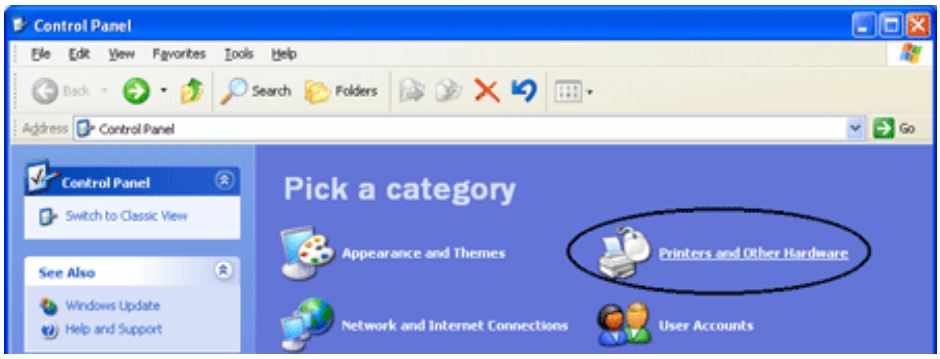
With this product, you can learn how many times the consumables are used so that you can estimate the right timing for the replace

For Windows 98 / Windows Me / Windows 2000 / Window XP

1. When turning on the power, check that the scanner is connected to the PC.

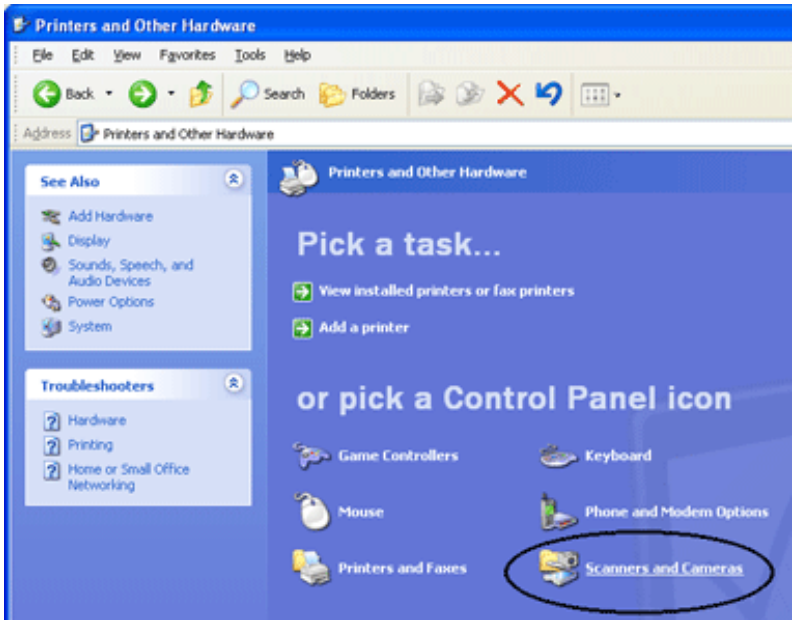
Refer to "3.2 Connecting the Scanner to a PC" in fi-5120C / fi-5220CGetting Started on the Setup CD-ROM for information about connecting the scanner to a personal computer.

2. Double click the "Printer and Other Hardware" icon on the operator panel of the PC.



➡ The [Printer and Other Hardware] screen is displayed.

3. In the [Printer and Other Hardware] screen, double click the "Scanners and Cameras" icon.



➡ The [Scanners and Cameras] screen is displayed.

All Rights Reserved Copyright 2006 © PFULIMITED

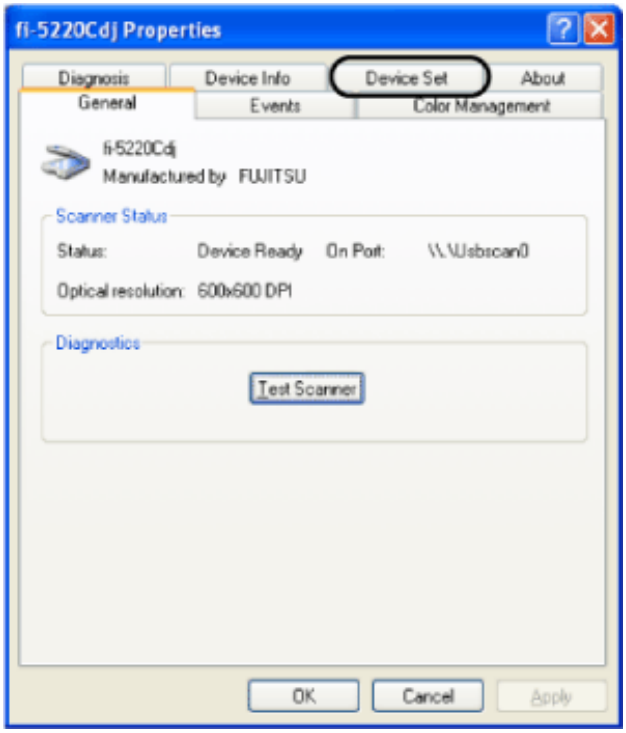
5.1 Consumable and Replacement Cycle (3)

Prev Next

1 | 2 | 3 | 4 | 5 | 6

4. Right click on "fi-5120Cdj" or "fi-5220Cdj" icon, and select [Properties] (for Windows Me, Windows XP), or double click (for Windows 98, Windows 2000)

➡ The properties dialogbox of fi-5120Cdj or fi-5220Cdj appears.



1 | 2 | 3 | 4 | 5 | 6

All Rights Reserved Copyright 2006 © PFULIMITED

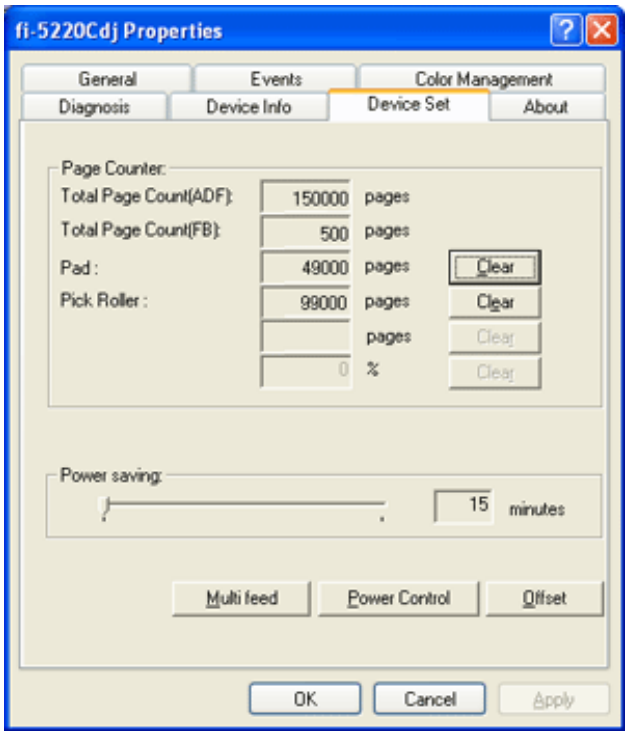
5.1 Consumable and Replacement Cycle (4)

Prev Next

1 | 2 | 3 | 4 | 5 | 6

5. Click the "Device Set" tab.

➡The following screen is displayed.



You can confirm the following information in this panel:

- Total number of scans
- Pad counter (approximate number of scans after resetting the pad counter)
- Pick roller counter (approximate number of scans after resetting the Pick roller counter)

1 | 2 | 3 | 4 | 5 | 6

All Rights Reserved Copyright 2006 © PFULIMITED

5.1 Consumable and Replacement Cycle (5)

Prev Next

1 | 2 | 3 | 4 | 5 | 6

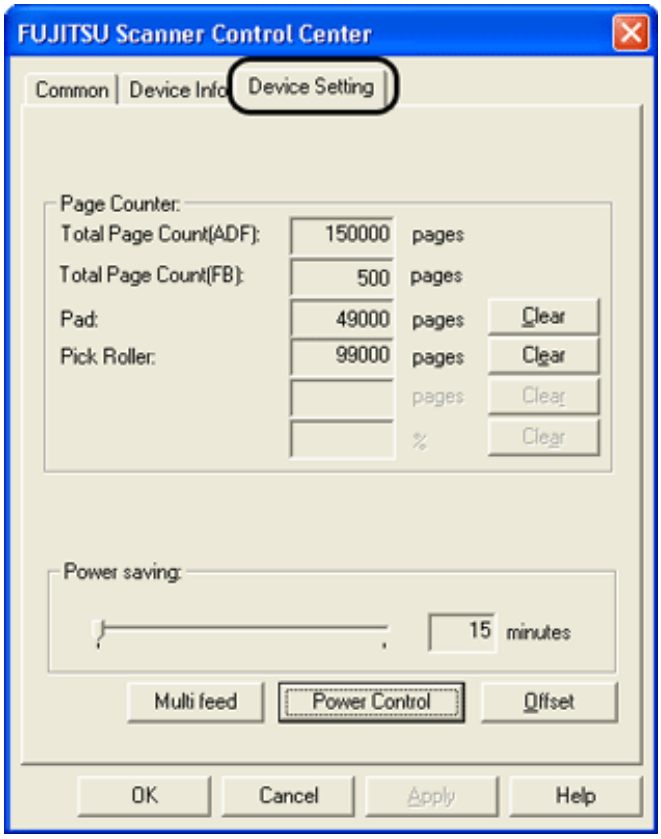
For Windows 95 / Windows NT 4.0

1. **When turning on the power, check that the scanner is connected to your PC.**

2. **Right click the "FUJITSU Scanner Control Center" icon displayed in the task tray, then select "Option".**

3. **Click "Device Set" tab.**

The following screen is displayed.



You can confirm the following information in this panel:

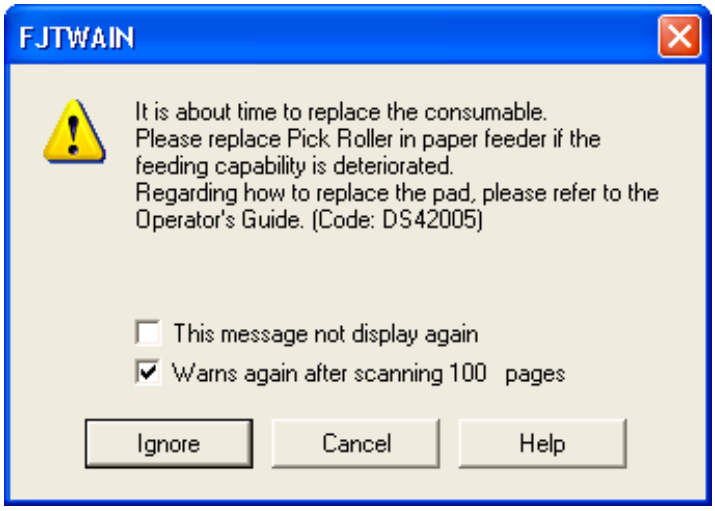
- Total number of scans
- Pad counter (approximate number of scans after resetting the pad counter)
- Pick roller counter (approximate number of scans after resetting the Pick roller counter)

1 | 2 | 3 | 4 | 5 | 6

All Rights Reserved Copyright 2006 © PFULIMITED

5.1 Consumable and Replacement Cycle (6)

The following message sometimes appears when the scanner is being used:


FJTWAIN
It is about time to replace the consumable.
Please replace Pick Roller in paper feeder if the feeding capability is deteriorated.
Regarding how to replace the pad, please refer to the Operator's Guide. (Code: DS42005)
This message not display again
Warns again after scanning 100 pages
Ignore
Cancel
Help

Replace consumables when this message is displayed.
After clicking the [Ignore] button, this message will disappear and scanning will continue. Please replace the consumable as soon as possible. As a default, this message appears again after 100 scans. If you do not wish this message to display, click the [this message not display again]. To stop scanning and replace the consumable, click the [Cancel] button.

For details on how to replace consumables, see "5.2 Replacing the Pad Assy" and "5.3 Replacing the Pick Roller".

All Rights Reserved Copyright 2006 © PFULIMITED

5.2 Replacing the Pad Assy (1)

1. Remove any documents on the ADF paper chute.

2. Open the ADF by pushing the ADF button.

CAUTION

Be careful, the ADF cover may close and pinch your finger.

3. Remove the Pad ASSY.

Press the knobs on both ends of the Pad ASSY, and pull the Pad ASSY upwards and towards you.
When doing this, take care not to catch the pick springs.

4. Attach the new Pad ASSY.

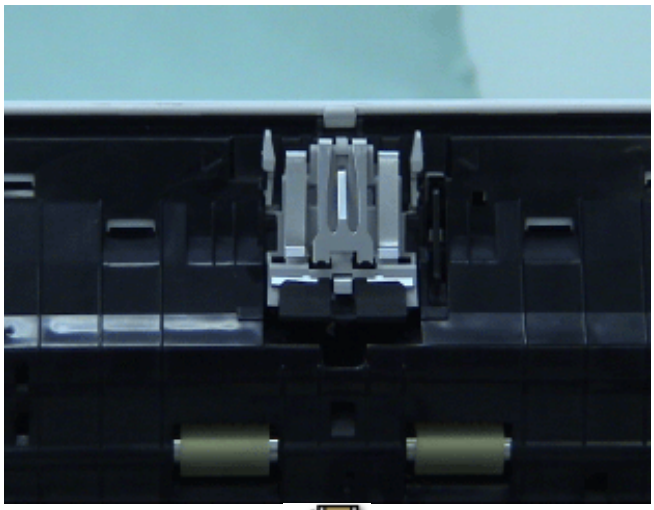
Hold both ends of the new Pad ASSY and attach it to its installation location.
When doing this, take care not to catch the pick springs.

ATTENTION

Make sure that the Pad ASSY is firmly attached. When the Pad ASSY is not correctly attached, document jams or other feeding errors may occur.

5. Press down on the center of the ADF to return it into its original position.

You should hear the ADF click when it returns to its original position.
With the movie below, review the replacement procedure of the Pad ASSY:

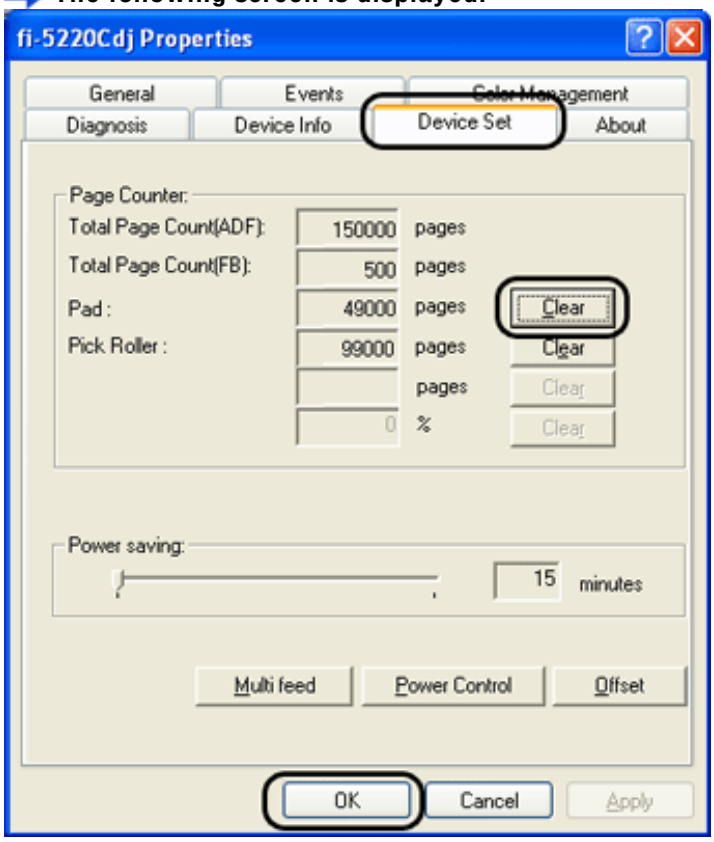


All Rights Reserved Copyright 2006 © PFULIMITED

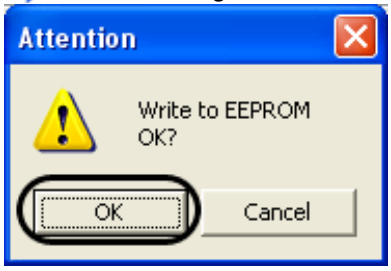
6. Reset the Pad Counter.

For Windows 98 / Windows Me / Windows 2000 / Window XP

① When turning on the power, check that the scanner is connected to your PC.
② Open the [Scanners and Cameras] from the [Control Panel] of your PC.
③ Open the properties dialogbox of fi-5120Cdj or fi-5220Cdj from the [Scanners and Cameras].
④ The properties dialogbox of fi-5120C or fi-5220C appears.
⑤ Click the "Device Set" tab.
➡ The following screen is displayed.



⑥ After clicking the [Clear] button beside "Pad" in "Page Counter", click the [OK] button.
➡ The following screen is displayed.



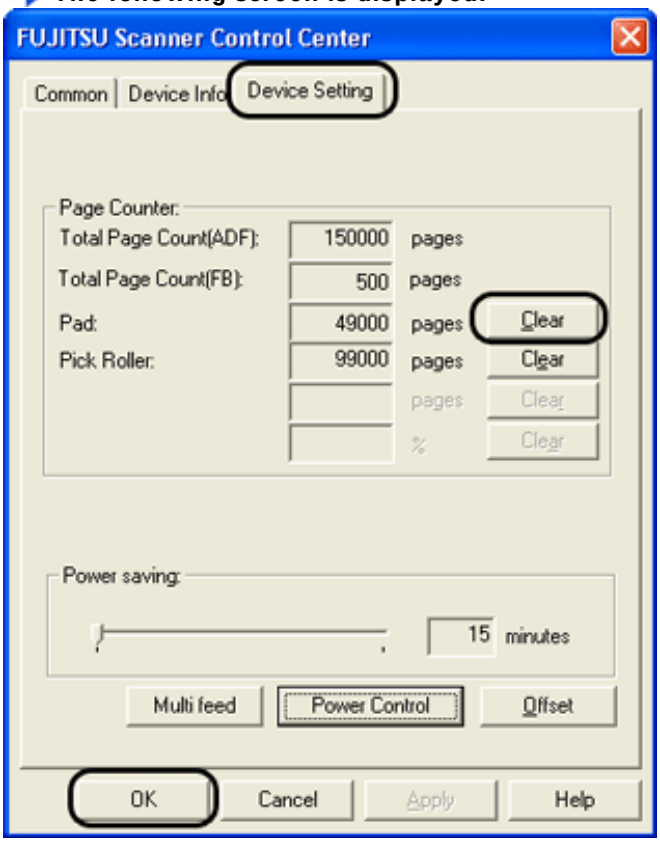
Click the [OK] button. The Pad counter returns to "0".

All Rights Reserved Copyright 2006 © PFULIMITED

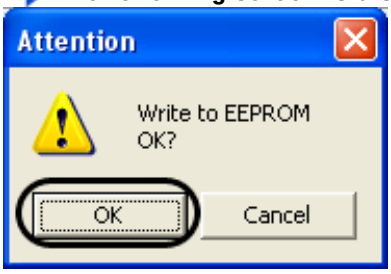
5.2 Replacing the Pad Assy (3)

For Windows 95 / Windows NT 4.0

① When turning on the power, check that the scanner is connected to your PC.
② Right click the "FUJITSU Scanner Control Center" icon displayed in the task tray, then select "Option".
③ Click the "Device Set" tab.
➡ The following screen is displayed.



④ After clicking the [Clear] button beside "Pad" in "Page Counter", click the [OK] button.
➡ The following screen is displayed.



Click the [OK] button. The Pad counter returns to "0".

All Rights Reserved Copyright 2006 © PFULIMITED

5.3 Replacing the Pick Roller (1)

1. Remove any documents on the ADF Paper Chute.

2. Remove the ADF paper chute.

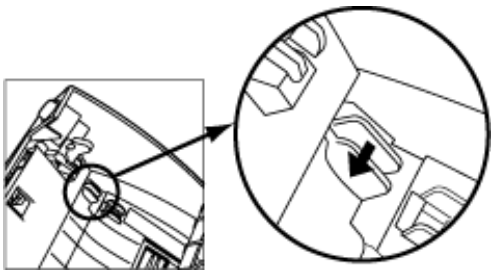
3. Open the ADF by pulling the ADF Open Lever.

ATTENTION

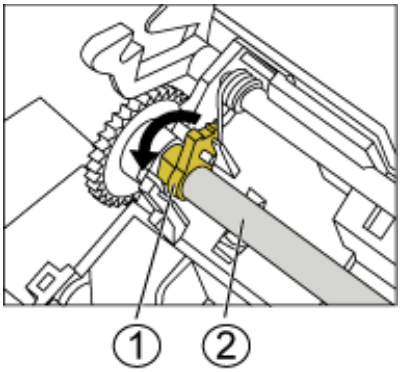
Be careful, the ADF may close and pinch your finger.

4. Remove the Pick roller from the scanner.

1. Grip the knobs on the sheet guide with your fingers, and lift it up to remove.

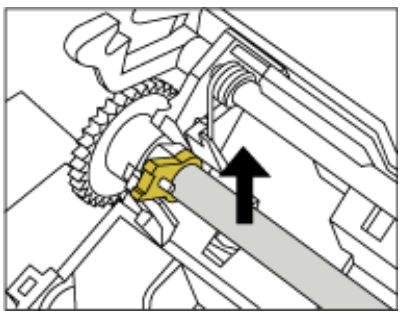


2. Rotate the Pick roller bushing in the direction of the arrow.



① Pick Roller Bushing
② Pick Roller Shaft

3. Remove the Pick roller while lifting it up in the direction of the arrow.



CAUTION

The Pick roller Bushing is hard. Do not turn this bearing with your fingernails.
Use a paper clip for turning the roller bushing if you can not rotate it with your finger.

All Rights Reserved Copyright 2006 © PFULIMITED

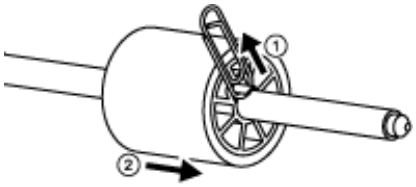
5.3 Replacing the Pick Roller (2)

5. Remove the Pick roller from the shaft while lifting up the tab on the Pick roller.

Pull out the shaft from the pick roller while lifting up its tab.

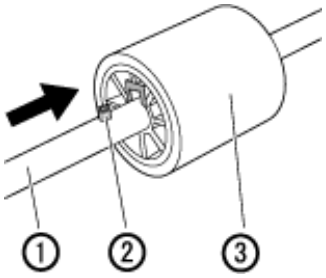
ATTENTION

If you push up the pick roller tab using your fingernail, it may heart or get chipped your fingernail. If you worry about that, you push up the pick roller tab using a paper clip.



6. Attach the new Pick roller.

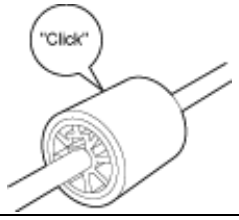
Insert the new Pick roller aligning the protrusion on the shaft with the slot for the screw in the Pick roller.



① : Pick Roller Shaft
② : Protusion
③ : Pick Roller

ATTENTION

Make sure that the Pick roller is completely attached. An incompletely attached Pick roller might cause document jams or other feedings errors.



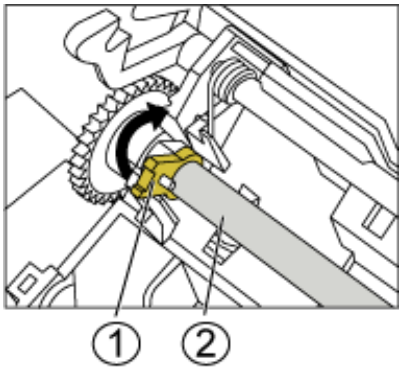
All Rights Reserved Copyright 2006 © PFULIMITED

5.3 Replacing the Pick Roller (3)

7. Attach the Pick roller to the scanner.

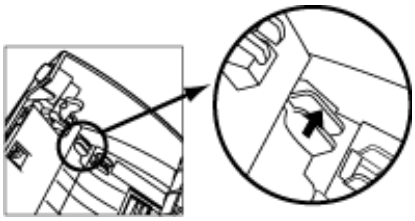
Attatch the Pick roller to the scanner in reverse order of the procedure for removing.

1. Turn the Pick roller bushing in the direction indicated by the arrow.



① Pick Roller Bushing
② Pick Roller Shaft

2. Move the sheet guide claws in the direction indicated by the arrow to fix the sheet guide.

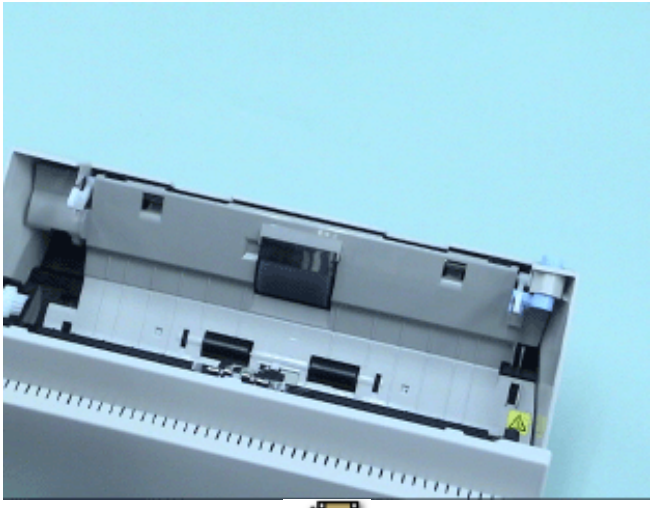


8. Press down the center of the ADF to return it to its original position.

You should hear the ADF click when it returns to its original position.

9. Attach the ADF paper chute.

With the movie below, review the replacement procedure of the Pick roller:



5.3 Replacing the Pick Roller (4)

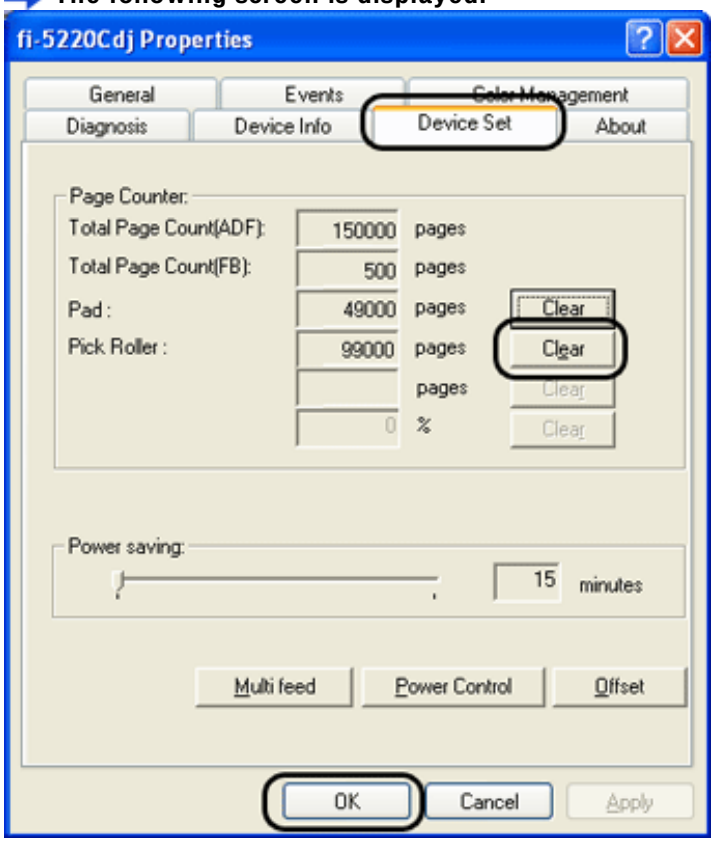
Prev Next

1 | 2 | 3 | 4 | 5

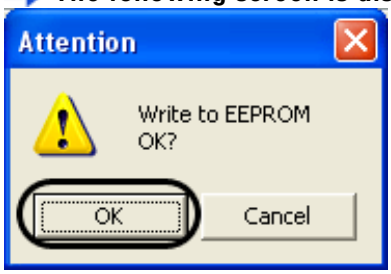
10. Reset the Pick Roller Counter.

For Windows 98 / Windows Me / Windows 2000 / Window XP

① When turning on the power, check that the scanner is connected to your PC.
② Open the [Scanners and Cameras] from the [Control Panel] of your PC.
③ Open the properties dialogbox of fi-5120Cdj or fi-5220Cdj from the [Scanners and Cameras].
④ The properties dialogbox of fi-5120C or fi-5220C appears.
⑤ Click the "Device Set" tab.
➡ The following screen is displayed.



⑥ After clicking the [Clear] button beside "Pick Roller" in "Page Counter", click the [OK] button.
➡ The following screen is displayed.



Click the [OK] button. This returns the pick counter to "0".

1 | 2 | 3 | 4 | 5

All Rights Reserved Copyright 2006 © PFULIMITED

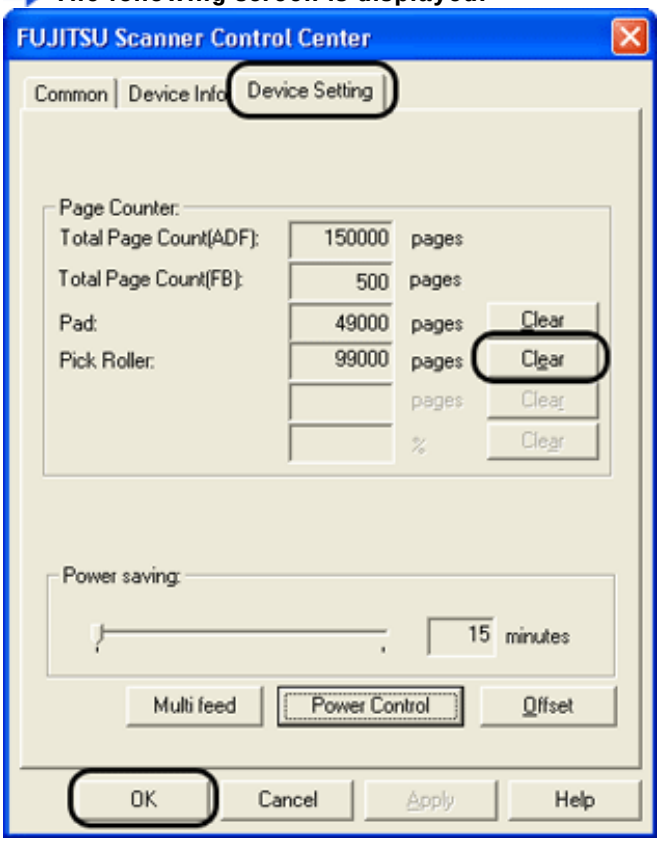
5.3 Replacing the Pick Roller (5)

Prev Next

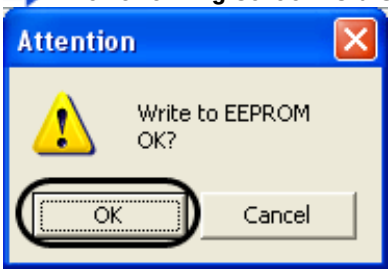
1 | 2 | 3 | 4 | 5

For Windows 95 / Windows NT 4.0

① When turning on the power, check that the scanner is connected to your PC.
② Right click the "FUJITSU Scanner Control Center" icon displayed in the task tray, then select "Option".
③ Click the "Device Set" tab.
➡ The following screen is displayed.



④ After clicking the [Clear] button beside "Pick Roller" in "Page Counter", click the [OK] button.
➡ The following screen is displayed.



Click the [OK] button. The Pick counter (The Pick roller counts) returns to "0".

1 | 2 | 3 | 4 | 5

All Rights Reserved Copyright 2006 © PFULIMITED

fi-5120C / fi-5220C Image Scanner Operator Guide

PREFACE | CHAPTER 1 | CHAPTER 2 | CHAPTER 3 | CHAPTER 4
CHAPTER 5 | CHAPTER 6 | CHAPTER 7 | CHAPTER 8 | APPENDIX

TROUBLE SHOOTING
CONTENTS MAP
TOP

Chapter 6 TROUBLESHOOTING

Prev Next

This chapter describes how to remedy document jams, other trouble, items to check before contacting the agent where you bought the scanner, and how to check device labels.

ATTENTION

About troubles that are not described here, and the details of the errors, refer to the FUJITSU TWAIN32 Scanner Driver Help.

All Rights Reserved Copyright 2006 © PFULIMITED

6.1 Removing Jammed Documents (1)

Prev Next

1 | 2 | 3

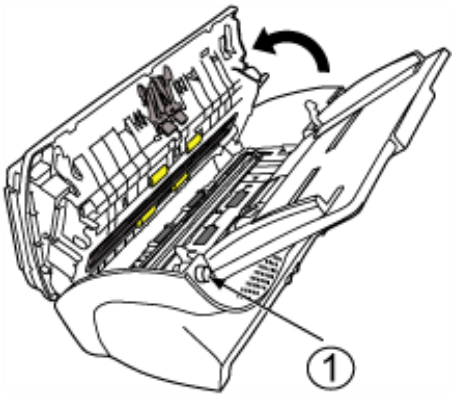
If a document jam occurred, follow the procedure below to remove the jammed documents.

CAUTION

- Take care not to get injured when removing jammed documents.
- Be careful not to get neckties, necklaces, etc. entangled in the scanner when removing the jammed documents
- The surface of the glass may become hot during operation. Take care not to get burned.

1. Remove any documents on the ADF paper chute.

2. Open the ADF by pushing on the ADF button.



① ADF button

CAUTION

Be careful, the ADF cover may close and pinch your finger.

3. Remove the jammed document.

ATTENTION

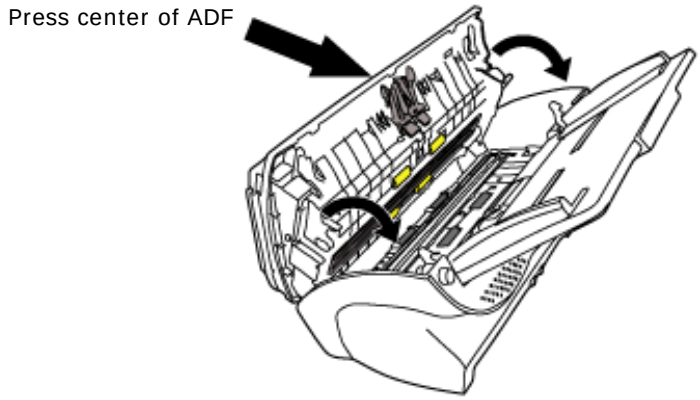
- Staples, paper clips, etc. cause document jams. Be sure to fully check the document and feed path, and remove any small metal objects such as these. Also, before you start scanning, be sure to remove any staples, clips, etc. from the document.
- Take care not to pull the pick springs when removing jammed documents.

1 | 2 | 3

All Rights Reserved Copyright 2006 © PFULIMITED

6.1 Removing Jammed Documents (2)

4. Press down on the center of the ADF to return it to its original position and lock the ADF button.



ATTENTION

- Make sure that the ADF is completely closed. When it is not completely closed, document jams or feeding errors may occur.
- When the scanning is completed or canceled, the documents might remain inside the ADF even though any error message is not displayed.

Follow the procedure below to remove the documetns remaining in the ADF.

1. Remove all documents from the ADF paper chute.
2. Open the ADF by pushing down the ADF button.
3. Remove the remaining documents.
4. Push in the center of the ADF to close it until the ADF button is locked.

All Rights Reserved Copyright 2006 © PFULIMITED

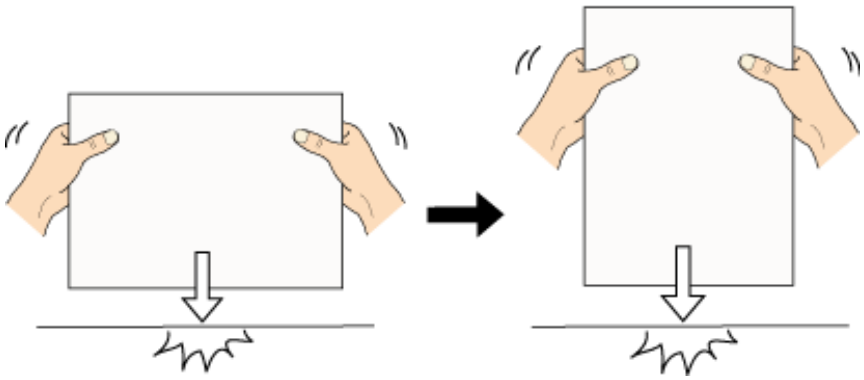
6.1 Removing Jammed Documents (3)

Prev Next

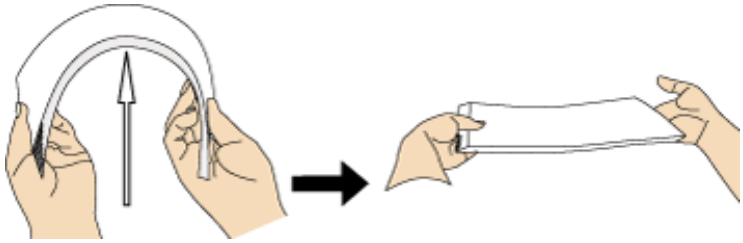
1 | 2 | 3

If a document jam or Multi Feed errors occur frequenlty, follow the procedures below .

1. **Align the edges of the document sheets.**

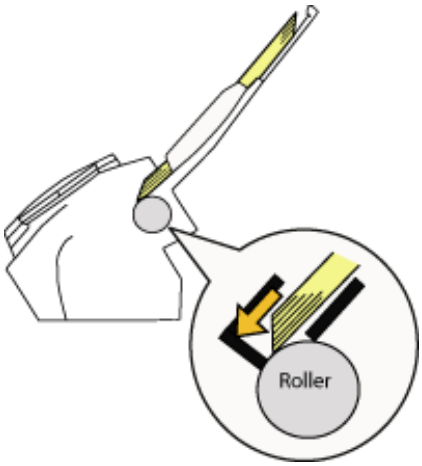


2. **Hold both the left and right sides of the document with both hands, and, as shown below, bend the document, bring back and release one side of the stack.**



3. **The document edges will be slightly misaligned, as shown in the picture.**

4. **Load the documents into the ADF chute, as shown in the picture.**



6.2 Error Indications in the Operator Panel (1)

Prev Next

1 | 2

When any error occurrs, the operator panel indicates "U" followed by a number for temporary errors or "E" followed by a number for device alarms (permanent error). Temporary errors can be resolved by the operator, but the device alarm requires recovery works by support engineers.
When the Error Recovery Guide is installed on your PC, its window appears when Windows is started up. If any error or device alarm occurred, this software displays information such as error names and error codes regarding the error/alarm. Record the information and click [Details] on its window to learn detailed information for trouble shooting.

Temporary Errors :

Indication	Meaning	Remedy
U0	Shipping lock error(fi-5220C only)	Confirm that the shipping lock is released. For details refer toA[fi-5120C/fi-5220C Getting Start section 2.1 Installing the Scanner].
U1	Paper Feed Error	Remove the jammed documents. Refer to "6.1 Removing JammedDocuments".
U2	Multi Feed Error	Confirm that the documents meet the paper conditions for scanning. Refer to "7.2 Document Quality".
U4	The ADF has been opened during scanning.	Close the ADF cover completely. For the details, refer to "6 TROUBLESHOOTING".
U6	The print cartridge is not set.(fi-5120C only)	This is a temporary error related withthe Imprinter option (sold separately). For details refer to 553PR Operator's Guide, chapter "5 Error Message".

HINT
The Error Recover Guide is stored in Setup CD-ROM. When installing the application software, refer to "2.1 Installing the Scanner Application" in fi-5120C/fi-5220C Getting Started.

1 | 2

All Rights Reserved Copyright 2006 © PFULIMITED

6.2 Error Indications in the Operator Panel (2)

Prev Next

1 2

Device alarms:

Indication	Meaning	Remedy
E0	Flatbed motor malfunction.	When you encounter any alarm on the display, turn the scanner off and on. If the alarm is still displayed on the Function Number display, contact the store where you purchased the scanner or an authorized FUJITSU scanner service provider.
E1	Trouble in the optical system (Flatbed).	
E2	Trouble in the optical system (front).	
E3	Trouble in the optical system (back).	
E4	The motorfs fuse has blown out.	
E6	Trouble in the operator panel.	
E7	Trouble occurred in the EEPROM.	
E8	The SCSI interface fuse has blown out.	
E9	An error in the image memory.	
EA	Trouble with the imprinter.	
Ec	An alarm in the memory.	
Ed	Trouble with the SCSI interface controller.	
EF	Trouble with the background switching mechanism.	

1 2

All Rights Reserved Copyright 2006 © PFULIMITED

6.3 Remedying Typical Troubles

Prev Next

This section describes troubles that may occur during scanning and how to remedy that trouble.
Before you ask for repair, check the following flowcharts. If the remedies in these flowcharts do not solve the problem, check the items in "6.4 Items to Check Before Contacting the Agent Where You Bought the Scanner" and then contact the agent where you bought the scanner or an authorized FUJITSU scanner service provider.

- Scanner cannot be turned On.
- Indication on Function No. display goes out.
- The scanning does not start.
- Quality of scanned pictures or photos is not satisfactory.
- Quality of scanned text of lines is unsatisfactory.
- Images are distorted or blurred.
- Vertical lines appear in the scanned image.
- The Function No. display indicates alarm after the scanner is turned ON.
- Multi feed errors occur frequently.
- Pickup errors occurs frequently.
- Paper jams occur frequently.
- The scanned images are elongaled.
- There is a shadow on the leading edge of the scanned images.

All Rights Reserved Copyright 2006 © PFULIMITED

6.3 Remedying Typical Troubles

Prev Next

Symptom: Scanner cannot be turned ON.

Back

Are power cable and AC adapter correctly connected?

NO → Correctly connect power cable.

YES ↓

Are you using the correct AC cable and AC adapter supplied with the scanner from the manufacturer?

NO → You must use the AC adapter and cable supplied with your scanner by the anufacturer. Please get the correct AC adapter and cable to connect to your scanner.

YES ↓

Did you pushed the power button?

NO → Press power button.

YES ↓

If you cannot solve the problem after taking measures, check the items in "6.4 Items to check before contacting the dealer where you bought the scanner" and contact the dealer or an authorized FUJITSU scanner service provider .

All Rights Reserved Copyright 2006 © PFULIMITED

Symptom: Indication on Function No. display goes out.

Back

Does the display remain blank even after you push any button on the operator panel?

NO → The scanner operation is normal.

YES ↓

Does the display remain blank even after running ON the scanner again?

NO → The scanner operation is normal.

YES ↓

If you cannot solve the problem after taking measures, check the items in "6.4 Items to check before contacting the dealer where you bought the scanner" and contact the dealer or an authorized FUJITSU scanner service provider.

All Rights Reserved Copyright 2006 © PFULIMITED

Symptom: The scanning does not start.

Back

Did you unlock the shipping lock of the flatbed?
(fi-5220C only)
→ NO: Turn OFF the scanner and unlock the shipping lock. (*1)
↓ YES

Are the document loaded correctly on the ADF paper chute?
→ NO: Load document correctly on ADF paper chute.
↓ YES

Is the ADF closed completely?
→ NO: Close the ADF completely.
↓ YES

Is the interface cable connected correctly?
→ NO: Connect interface cable correctly. (*2)
↓ YES

Is the connector of interface cable broken?
→ YES: Use a new interface cable and correctly connect it.
↓ Yes

(when using scanner on SCSI interface)
Is the SCSI ID set correctly?
→ NO: Turn OFF the scanner and set the SCSI ID correctly, then turn ON the scanner again. (*2)
↓ YES

Does the scanning start after running ON the scanner again?
→ YES: The scanner operation is normal.

If you cannot solve the problem after taking measures, check the items in "6.4 Items to check before contacting the dealer where you bought the scanner" and contact the dealer or an authorized FUJITSU scanner service provider.

*1) For details, refer to "Getting Started" 2.1 Installing the Scanner.
*2) For details, refer to "Getting Started" 2.2 Connecting the scanner to your PC.

All Rights Reserved Copyright 2006 © PFULIMITED

6.3 Remedying Typical Troubles

Prev Next

Symptom: Quality of scanned pictures or photos is not satisfactory.

Back

Did you select halftoning or dithering?

NO → Select halftoning or dithering on your PC.

YES

Are the upper/lower glasses inside the ADF, the document bed, and the document holding pad clean?

NO → Clean dirty locations. (*)

YES

If you cannot solve the problem after taking measures, check the items in "6.4 Items to check before contacting the dealer where you bought the scanner" and contact the dealer or an authorized FUJITSU scanner service provider.

*)For details on how to clean dirty locations, see "Chapter 4 DAILY CARE".

All Rights Reserved Copyright 2006 © PFULIMITED

6.3 Remedying Typical Troubles

Prev Next

Symptom: Quality of scanned text or lines is unsatisfactory.

Back

Are the upper/lower glasses inside the ADF, the document bed, and the document holding pad clean?

NO → Clean dirty locations. (*)

YES ↓

If you cannot solve the problem after taking measures, check the items in "6.4 Items to check before contacting the dealer where you bought the scanner" and contact the dealer or an authorized FUJITSU scanner service provider.

*)For details on how to clean dirty locations, see "Chapter 4 DAILY CARE".

All Rights Reserved Copyright 2006 © PFULIMITED

6.3 Remedying Typical Troubles

Prev Next

Symptom: Images are distorted or blurred.

Back

Are the upper/lower glasses inside the ADF, the document bed, and the document holding pad clean?

NO → Clean dirty locations. (*)

YES ↓

Is the ADF cover pressed down or heavy object placed on the ADF during scanning?

YES → Do not press down the ADF or place heavy object on the ADF during scanning.

NO ↓

Is something causing the scanner to vibrate during scanning?

YES → Do not allow anything to cause the scanner to vibrate while scanning.

NO ↓

Is the scanner installed on a flat, level surface?

NO → Install the scanner on a flat, level surface.

YES ↓

If you cannot solve the problem after taking measures, check the items in "6.4 Items to check before contacting the dealer where you bought the scanner" and contact the dealer or an authorized FUJITSU scanner service provider.

*)For details on how to clean dirty locations, see "Chapter 4 DAILY CARE".

All Rights Reserved Copyright 2006 © PFULIMITED

6.3 Remedying Typical Troubles

Prev Next

Symptom: Vertical lines appear in the scanned image.

Back

Did you scan the document with the Flatbed? (fi-5220C only)

YES → Clean the document bed of the Flatbed. (*1)

NO ↓

Is the glasses of the ADF Dirty?

YES → Clean the upper/lower glasses inside the ADF. (*2)

NO ↓

Do the lines disappear on images with low resolution settings?

YES → Scan the documents with low resolution settings.

NO ↓

If you cannot solve the problem after taking measures, check the items in "6.4 Items to check before contacting the dealer where you bought the scanner" and contact the dealer or an authorized FUJITSU scanner service provider.

*1) For cleaning the Flatbed, refer to " 4.2 Cleaning the Flatbed".

*2) For cleaning the inside ADF, refer to " 4.3 Cleaning the ADF".

All Rights Reserved Copyright 2006 © PFULIMITED

Symptom: The Function No. display indicates alarm after the scanner is turned ON.

Back

(When the scanner is just installed on the place) Did you unlock the shipping lock of the flatbed?

NO → Turn OFF the scanner and unlock the shipping lock, then turn ON the scanner again.(*)

YES ↓

Does the Function No. display indicate any alarm after turning ON the scanner again?

NO → The scanner operation is normal.

YES ↓

If you cannot solve the problem after taking measures, check the items in "6.4 Items to check before contacting the dealer where you bought the scanner" and contact the dealer or an authorized FUJITSU scanner service provider.

*) For details, refer to "Getting Started" 2.1 Installing the Scanner.

All Rights Reserved Copyright 2006 © PFULIMITED

Symptom: Multi feed errors occur frequently.

Back

Do the documents satisfy the conditions described in "7.2 Document Quality"?
NO → Use documents that satisfy the requirements. (*1)
YES ↓

When the multi feed detection is ON, are the multi feed detection conditions satisfied?(*2)
NO → Satisfy the multi feed detection conditions. (*2)
YES ↓

Were the documents fanned before loaded onto the ADF paper chute?
NO → Fan the document before loading, or reduce the number of sheets of the documents.
YES ↓

Have you scanned a very thick paper or plastic document?
YES → When scanning documents like this, disable the multifeed detection.
NO ↓

Have the documents just been printed out on a copier or laser printer?
YES → Fan the documents 3 or 4 times to remove static electricity from the paper.
NO ↓

Is the document stack 5 mm or less?
NO → Reduce the number of sheets of the document. (*3)
YES ↓

Are all the consumables (Pick roller and Pad ASSY) installed correctly?
NO → Correctly install the consumables if needed.

YES

Is any of consumables (Pick roller and Pad ASSY) dirty?	YES	Clean the dirty consumables.(*4)

NO

Is any of consumables (Pick roller and Pad ASSY) worn out? (Check the consumable counter)	YES	Replace the consumable, if needed. (*5)

NO

If you cannot solve the problem after taking measures, check the items in "6.4 Items to check before contacting the dealer where you bought the scanner" and contact the dealer or an authorized FUJITSU scanner service provider.

*1)For details on requirements, see "7.2 Document Quality".
*2)For details on multi feed, see "7.5 Multi feed Detection Conditions".
*3)For details on requirements, see "7.3 Maximum Document Loading Capacity".
*4)For details on how to clean the consumables, see "4.3 Cleaning the ADF".
*5)For details on how to replace and attach consumables, see "5 REPLACING CONSUMABLES".

All Rights Reserved Copyright 2006 © PFULIMITED

Symptom: Pickup errors occurs frequently.

Back

Do the documents satisfy the conditions described on "7.2 Document Quality"?

NO → Use documents that satisfy the quirements. (*1)

YES ↓

Were the documents fanned before loading on ADF paper chute?

NO → Fan the document before loading, or reduce the number of sheets of the documents.

YES ↓

Are all the consumables (Pick roller and Pad ASSY) installed correctly?

NO → Correctly install the consumable(Pick roller and Pad ASSY), if needed. (*2)

YES ↓

Is any of consumables (Pick roller, Pad ASSY) dirty?

YES → Clean the dirty consumable. (*3)

NO ↓

Is any of consumables (Pick roller and Pad ASSY) worn out? (Check the consumable counter)

YES → Replace the consumable, if needed. (*4)

NO ↓

If you cannot solve the problem after taking measures, check the items in "6.4 Items to check before contacting the dealer where you bought the scanner" and contact the dealer or an authorized FUJITSU scanner service provider.

*1) For details on requirements, see "7.2 Document Quality".
*2) For details on how to install the consumables, see "5 REPLACING CONSUMABLES".
*3) For details on how to clean the consumables, see "4.3 Cleaning the ADF".
*4) For details on how to replace the consumables, see "5 REPLACING CONSUMABLES".

All Rights Reserved Copyright 2006 © PFULIMITED

Symptom: Paper jams occur frequently.

Back

Do the documents satisfy the conditions described on "7.2 Document Quality"?
→ NO: Use documents that satisfy the quirements. (*1)
↓ YES

Is there any debris in the ADF?
→ YES: Clean the ADF or remove debris from the ADF. (*2)
↓ NO

Are all the consumables (Pick roller and Pad ASSY) installed correctly?
→ NO: Correctly install the consumables (Pick roller and Pad ASSY), if needed. (*3)
↓ YES

Is any of consumables (Pick roller, Pad ASSY) dirty?
→ YES: Clean the dirty consumable. (*2)
↓ NO

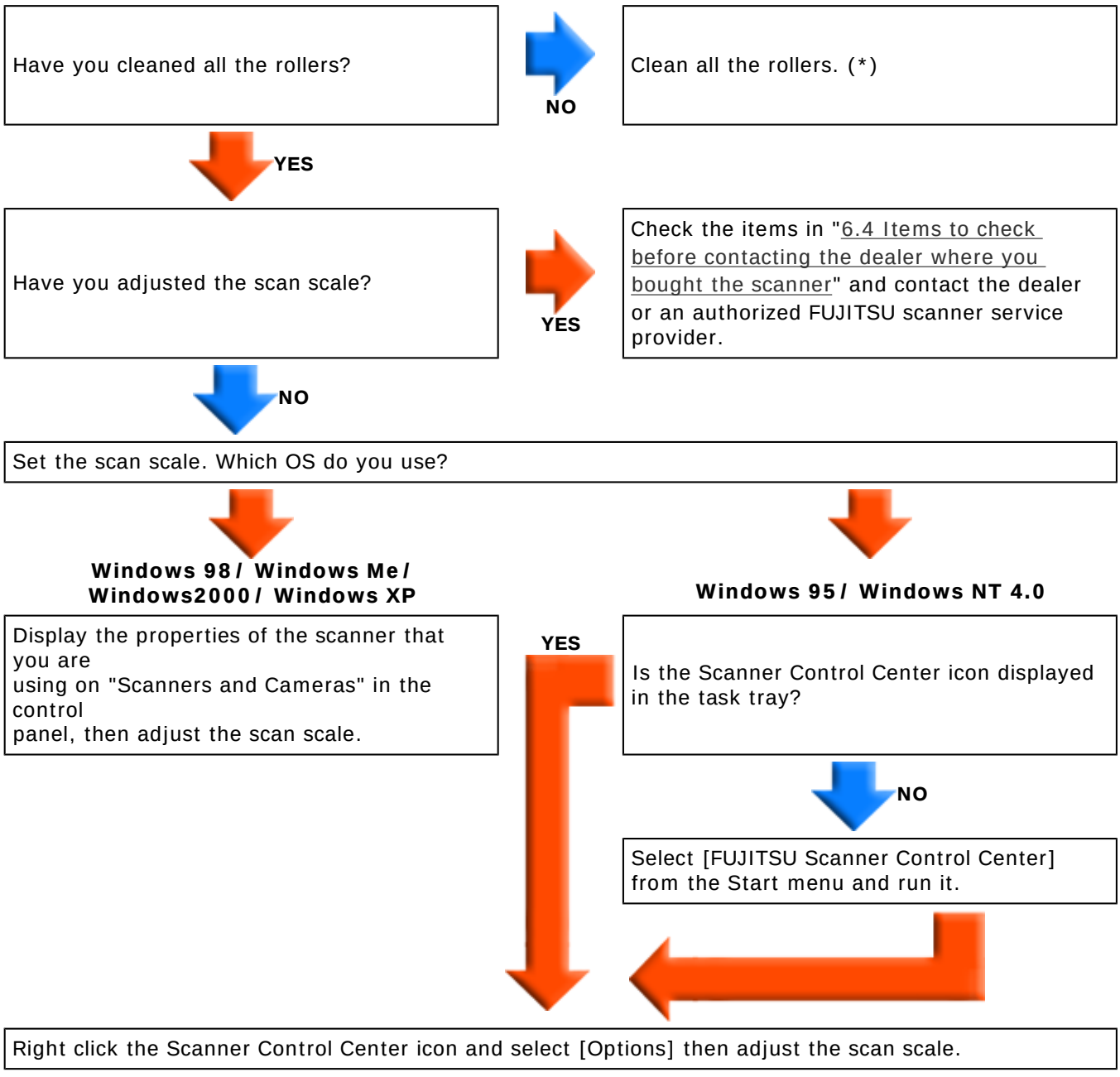
Is any of consumables (Pick roller and Pad ASSY) worn out? (Check the consumable counter)
→ YES: Replace the consumable, if needed. (*3)
↓ NO

If you cannot solve the problem after taking measures, check the items in "6.4 Items to check before contacting the dealer where you bought the scanner" and contact the dealer or an authorized FUJITSU scanner service provider.

*1) For details on requirements, see "7.2 Document Quality".
*2) For details on how to clean the ADF, see "4.3 Cleaning the ADF".
*3) For details on how to attach the consumables, see "5 REPLACING CONSUMABLES".

Symptom: The scanned images are elongated

Back


Have you cleaned all the rollers?
NO
Clean all the rollers. (*)
YES
Have you adjusted the scan scale?
YES
Check the items in "6.4 Items to check before contacting the dealer where you bought the scanner" and contact the dealer or an authorized FUJITSU scanner service provider.
NO
Set the scan scale. Which OS do you use?
Windows 98/ Windows Me/ Windows2000/ Windows XP
Windows 95/ Windows NT 4.0
Display the properties of the scanner that you are using on "Scanners and Cameras" in the control panel, then adjust the scan scale.
YES
Is the Scanner Control Center icon displayed in the task tray?
NO
Select [FUJITSU Scanner Control Center] from the Start menu and run it.
Right click the Scanner Control Center icon and select [Options] then adjust the scan scale.

*) For details on how to clean the rollers, see "4.3 Cleaning the ADF".

All Rights Reserved Copyright 2006 © PFULIMITED

6.3 Remedying Typical Troubles

Prev Next

Symptom: There is a shadow on the leading edge of the scanned images.

Back

Did you adjust the offset (starting position for scanning the document)?

YES → Check the items in "6.4 Items to check before contacting the dealer where you bought the scanner" and contact the dealer or an authorized FUJITSU scanner service provider..

NO

Adjust the offset. Which OS do you use?

Windows 98 / Windows Me / Windows2000 / Windows XP

Display the properties of the scanner that you are using on "Scanners and Cameras" in the control panel, then adjust the [Sub-scan Setting].

Windows 95 / Windows NT 4.0

Is the Scanner Control Center icon displayed in the task tray?

YES

NO

Select [FUJITSU Scanner Control Center] from the Start menu and run it.

Right click the Scanner Control Center icon and select [Options] then adjust the [Sub-scan Setting].

All Rights Reserved Copyright 2006 © PFULIMITED

6.4 Items to Check Before Contacting the Agent Where You Bought the Scanner

Prev Next

Check the following items before you contact the dealer where you bought the scanner.

Print

General Details

Item	findings
Model	(Example) fi-5120C For details on model, see "6.5 Checking Labels on the Scanner".
Serial No.	(Example) 000001 For details on serial No., see "6.5 Checking Labels on the Scanner".
Production date	2006 Year 1 Month 1 2006-05 (May, 2006) For details on production date, see "6.5 Checking Labels on the Scanner".
Date of purchase	2006 Year 1 Month 1
Symptom	
Frequency of trouble	
Total number of scanned page (ADF)	

Installation or PC connection issues

Problem at the time of personal computer connection

Item	findings
OS iWindowsj	Windows XP
Displayed error message	
Application	(Example) SCSI interface
Interface controllers	(Example) made by Adaptec SCSI Card 2940AU

Feed system trouble

Item	findings
Document type	
Main purpose of use	
Last cleaning date	2006 Year 1 Month 1
Last consumables replacement date	2006 Year 1 Month 1
Operator panel status at trouble	

Imaging system trouble

Item	findings
Type and version of scanner driver	
Type of interface controller	(Example) made by Adaptec SCSI Card 2940AU
OS (Windows)	Windows XP
Application software	(Example) ScandAll 21, Acrobat

Other

Item	findings
Can both the original document and scanner image be sent by e-mail or Fax?	available

Print

All Rights Reserved Copyright 2006 © PFULIMITED

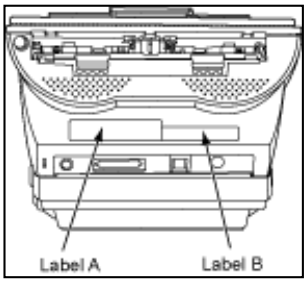
6.5 Checking Labels on the Scanner

Prev Next

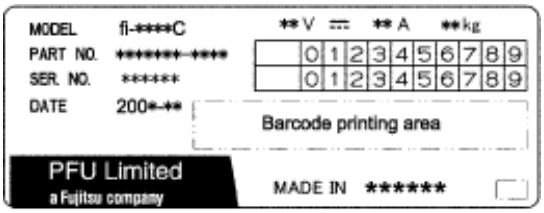
This section describes how to check the labels on the scanner.

Positions of Labels on the Scanner

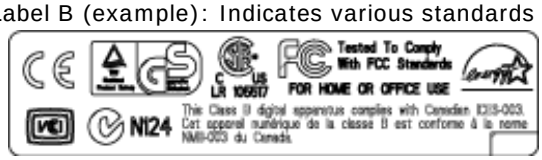
The following shows where the two labels are located on the scanner.



Label A (example): Indicates scanner information.


MODEL fi-****C
PART NO. *******-****
SER. NO. ******
DATE 200*-**
**V ⎓ ** A **kg
0 1 2 3 4 5 6 7 8 9
0 1 2 3 4 5 6 7 8 9
Barcode printing area
PFU Limited
a Fujitsu company
MADE IN ******

Label B (example): Indicates various standards that the scanner conforms with.



All Rights Reserved Copyright 2006 © PFULIMITED

Chapter 7 ADF AND PAPER SPECIFICATION

Prev Next

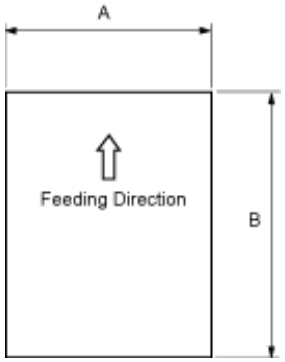
This chapter describes the required document size and paper quality for ensuring correct operation when scanning documents on the ADF.

All Rights Reserved Copyright 2006 © PFULIMITED

7.1 Document Size

Prev Next

The following shows the size of documents that can be scanned on the ADF.



Maximum		Minimum	
A	B	A	B
216 (8.5 in)	356 (14 in)	53 (2.1 in)	74 (2.9 in)

(Unit:mm)

All Rights Reserved Copyright 2006 © PFULIMITED

7.2 Document Quality (1)

Prev Next

1 | 2

Document Type

The following paper types are recommended for document use:

- Woodfree paper
- Wood containing paper

When using documents of paper type other than the above, check whether or not the document can be scanned by test-scanning a few sheets before executing the actual document.

Document Thickness

Paper thickness is expressed by "paper weight." The following shows the paper weights that can be used on this scanner:

- 52 g/m^2`127 g/m^2
  Only paper weight of 127 g/m2 is acceptable for A8-size documents.

Precautions

The following documents may not be scanned successfully:

- Documents of non-uniform thickness (e.g. envelopes)
- Wrinkled or curled documents (See HINT below.)
- Folded or torn documents
- Tracing paper
- Coated paper
- Carbon paper
- Carbonless paper
- Photosensitive paper
- Perforated or punched documents
- Documents that are not square or rectangular
- Very thin documents

Do not use the following documents:

- Paper-clipped or stapled documents
- Documents on which the ink is still wet
- Documents smaller than A8 (Portrait) in size
- Documents wider than A4 or Letter size (216mm)
- Documents other than paper such as fabric, metal foil, or transparencies

HINT

- When scanning semi-transparent documents, slide the [Brightness] bar to light to avoid bleed through.
- To prevent the rollers from becoming dirty, avoid scanning documents containing large areas written or filled in pencil. If scanning of such documents is unavoidable, clean the rollers frequently.

ATTENTION

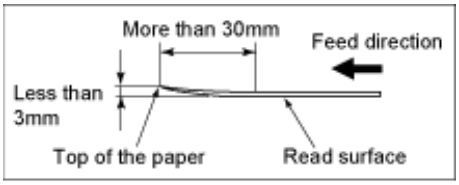
- Carbonless paper contains chemical substances that may damage the Pad ASSY or rollers (e.g. Pick roller) when documents are fed. Pay attention to the following:

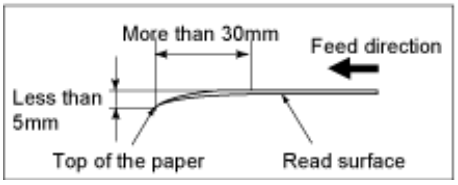
  Cleaning:
  If pick errors occur frequently, clean the Pad ASSY and Pick rollers.
  For details on cleaning the Pad ASSY and Pick rollers, see "4.3 Cleaning the ADF".

  Replacing parts:
  The service life of the Pad ASSY and Pick rollers is sometimes shortened when scanning medium-grade paper documents.
- When the manuscript of Wood containg paper is read, the life of a Pad ASSY and a Pick roller may become short compared with the case where the manuscript of Woodfree paper is read.

HINT

When using the ADF, the leading edge of all document sheets must be evenly aligned. Make sure that curling at the leading edge is within the following tolerances:





All Rights Reserved Copyright 2006 © PFULIMITED

7.2 Document Quality (2)

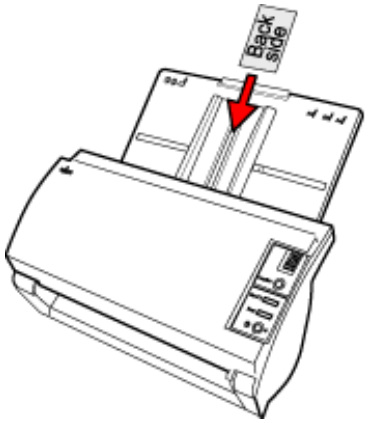
Prev Next

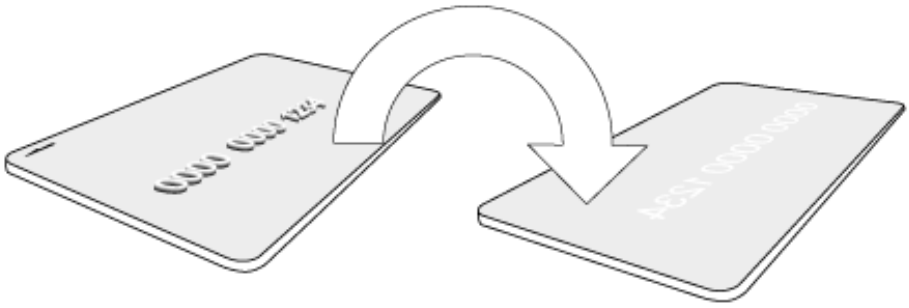
1 2

ATTENTION

This scanner can scan ID cards through the Automatic Document Feeder with the following precautions.

- Place one card at a time into the Auto Document Feeder.
- ID card feeding requires the card to be fed through the Auto Document Feeder in portrait mode as in the following figure.
- Smooth cards should be placed face down in the Auto Document Feeder.
- Embossed cards (raised lettering) should be placed with the embossed side down.





- The card to be scanned should be within the ISO7810 compliance, type ID-1.
  ISO7810-compliant, Type ID-1 card

Material:	PVC (Poly vinyl chloride) or PVCA (Polyvinyl chloride acetate)
Dimensions:	3.4 inch (height) x 2.1 inch (width) / 86 mm x 54 mm
Thickness:	0.03 ± 0.003inch / 0.76 ± 0.08mm

- Cards that are excessively rigid or less flexible may not feed smoothly and excessive noise may occur.
- Cards should be clean from oil and without labels.
- Cards cannot be scanned when the imprinter is installed.

All Rights Reserved Copyright 2006 © PFULIMITED

fi-5120C / fi-5220C Image Scanner Operator Guide

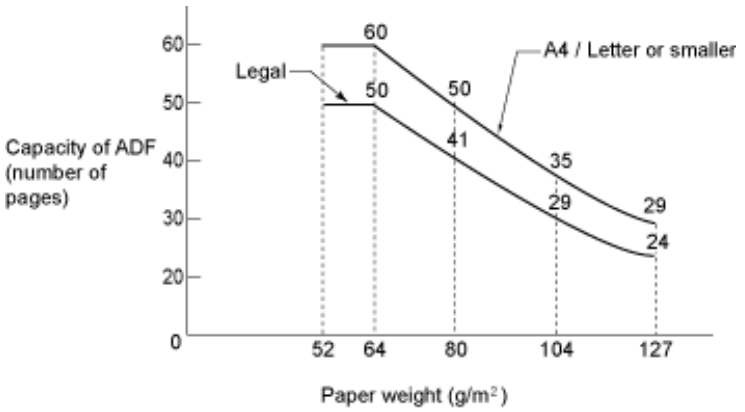
PREFACE | CHAPTER 1 | CHAPTER 2 | CHAPTER 3 | CHAPTER 4
CHAPTER 5 | CHAPTER 6 | CHAPTER 7 | CHAPTER 8 | APPENDIX

TROUBLE SHOOTING
CONTENTS MAP
TOP

7.3 Maximum Document Loading Capacity

Prev Next

The maximum number of sheets that can be loaded on the ADF paper chute is determined by the size and weight of the document. The following graph shows the maximum document loading capacity of ADF according to paper weight.



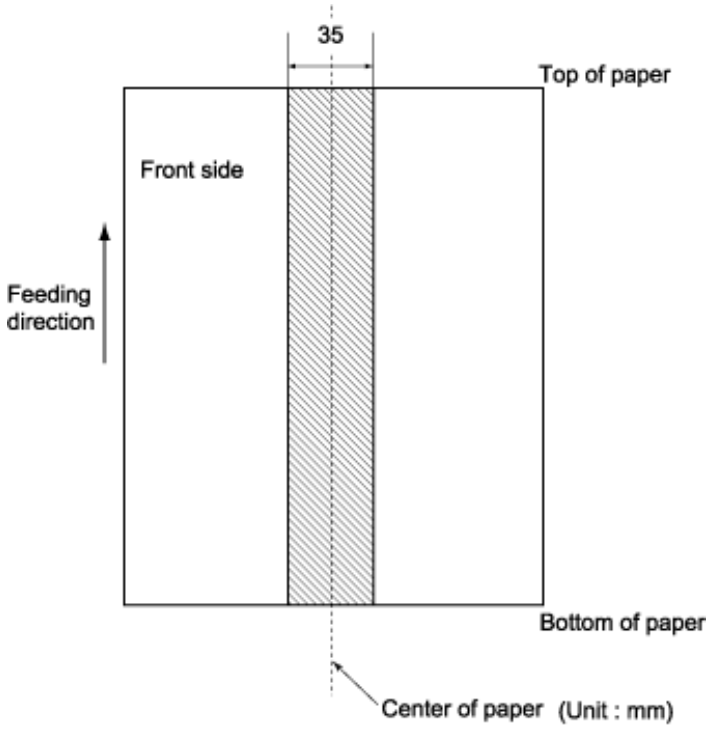
Unit	Conversion						
g/m²	52	64	75	80	90	104	127
lb	14	17	20	21	24	28	34
kg	45	55	64.5	69	77.5	90	110

All Rights Reserved Copyright 2006 © PFULIMITED

7.4 Area not to be perforated

Prev Next

When using the ADF, document trouble might occur if there are punched holes in the shaded area in the following figure. If hole-punched documents must be scanned, use the Flatbed.



All Rights Reserved Copyright 2006 © PFULIMITED

7.5 Multi feed Detection Conditions (1)

Prev Next

1 | 2

There are three multi feed detection modes: document overlapping, document length, and both document thickness and length. The following conditions must be satisfied in each of these detection modes.

Detection by Document Overlapping

Sheets of the same thickness shall be set in the ADF at a time.

- Document thickness: 0.065 to 0.15mm
- Punched holes are not allowed within 35mm of the vertical center line of the document.
- Other paper shall not be glued within 35 mm (1.4 in) of the vertical centerline of the document.

Detection by Document Length

Sheets of the same length shall be set in the ADF at a time.

- Document length deviation: 1% or less
- Punched holes are not allowed within 35mm of the vertical center line of the document.

Detection by Document Overlapping and Length

Sheets of the same thickness and length shall be set in the ADF at a time.

- Document thickness: 0.065 to 0.15mm
- Document length deviation: 1% or less
- Punched holes are not allowed within 35mm of the vertical center line of the document.
- Other paper shall not be glued within 35 mm (1.4 in) of the vertical centerline of the document.

ATTENTION

Multifeed detection by overlap will often mis-detect very thick paper or plastic document.
When scanning documents like this, please disable the multifeed detection.

1 | 2

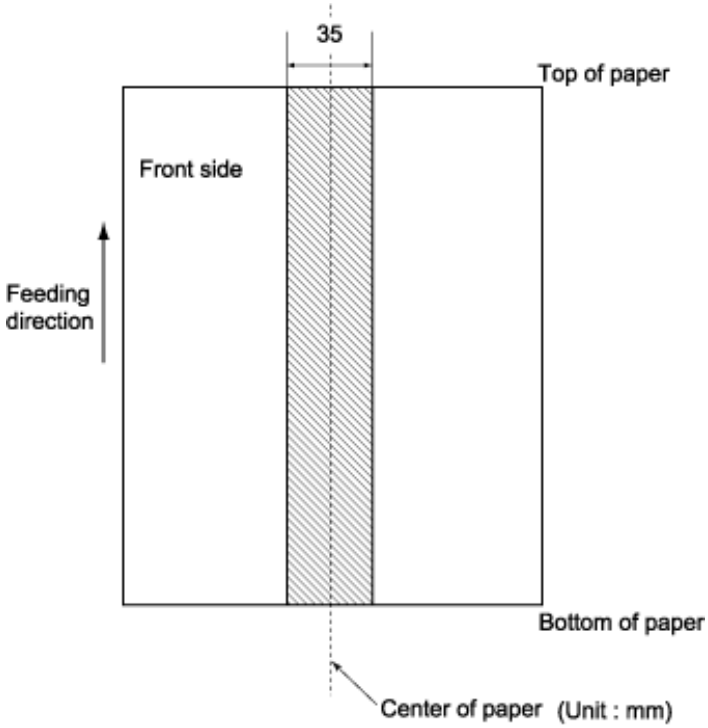
All Rights Reserved Copyright 2006 © PFULIMITED

7.5 Multi feed Detection Conditions (2)

HINT

The type of document and document conditions sometimes cause the multi feed detection rate to drop.

Multi feed detection monitoring area



All Rights Reserved Copyright 2006 © PFULIMITED

fi-5120C / fi-5220C Image Scanner Operator Guide

Chapter 8 SCANNER SPECIFICATION

Prev Next

This chapter lists the scanner specifications.

All Rights Reserved Copyright 2006 © PFULIMITED

8.1 Basic Specifications

Prev Next

No.	Item		Specification	Notice
1	Scanner Type		fi-5120C: ADF(Automatic Document Feeder) fi-5220C: ADF + Flatbed	
2	Image sensor		fi-5120C: CCD x 2 fi-5220C: CCD x 3	fi-5120C: Front / Back fi-5220C: Front / Back / Flatbed
3	Light source		White cold cathode fluorescent lamp: x 2 (fi-5120C) x 3 (fi-5220C)	fi-5120C: Front / Back fi-5220C: Front / Back / Flatbed
4	Scanning area	Minimum	A8 (Portrait)	ADF 127 g/m^2 paper (Note (*1))
		Maximum	ADF: Legal (Long page scanning: 216 x 864mm or 8.50 x 34in) Flatbed (fi-5220C): 216 x 297mm (8.50 x 11.69in)	(Note (*2))
5	Paper Weight		52 g/m^2 to 127g/m^2 (14 to 34lb)	(Note (*3))
6	Scanning Speed (A4 Portrait) (Note (*4))	Binary (monochrome)	Simplex: 25 sheets/min. Duplex: 50 sides/min.	200 dpi (Note (*5))
		Color	Simplex: 30 sheets /min. Duplex: 60 sides/min.	150 dpi (Note (*5))
7	Capacity of ADF		50 sheets	A4, 80 g/m^2 (20lb) (Note (*6))
8	Optical Resolution		600 dpi	-
9	Output resolution	Binary (monochrome)	50 ~ 600 dpi	Scalable in 1 dpi increments
		Grayscale	50 ~ 600 dpi	Scalable in 1 dpi increments
		Color	50 ~ 600 dpi	Scalable in 1 dpi increments
10	Grayscale level (internal)		8 bits per color	Internal 10 bits
11	Halftone Patterns		Dither / error diffusion	-
12	Interface (Note (*7))		Ultra SCSI	Shield-type 50 pin (pin-type) halfpich
			USB2.0 / 1.1 (Note(*8))	B type
13	Other function		JPEG compression	-
			Imprinter Port (fi-5120C only)	-

*1 The minimum size for scanning is A8 when using the ADF. When using the Flatbed (fi-5220C only) to scan the minimum scanning range is virtually unlimited.

*2 When scanning a "long page", if Automatic Page Size Detection is enabled, the maximum scanning length will be reduced by an overscan margin.
(Automatic Page Size Detection will overscan (scan at a slightly larger size) the document, which will result in some part of the document to be left out.)

*3 The document's thicknesses noted are for when using the ADF. When using the Flatbed to scan the document's thickness is unlimited.
For details, see "Chapter7 ADF AND PAPER SPECIFICATION".

*4 The scanning speed is the maximum speed of the scanner hardware. Software processing time such as data transfer time is added to the actual scanning time.

*5 The scanning speed noted is the value when using the ADF to scan.

*6 The maximum stacking capacity varies according to the document thickness. For details, see "Chapter7 ADF AND PAPER SPECIFICATION".

*7 The Ultra SCSI and USB 2.0 / 1.1 interfaces cannot be used at the same time.

*8 If you connect the scanner with USB 2.0, it is required that the USB port and the Hub are compliant with USB 2.0. The scanning speed may slow down when you connect the scanner with USB 1.1. If your omputer has the compatible USB 2.0 port, please use it.

All Rights Reserved Copyright 2006 © PFULIMITED

8.2 Installation Specifications

Prev Next

Item		Specification		
Dimensions (mm) (fi-5120C: Without ADF paper chute)		Depth	Width	Height
		fi-5120C: 168 mm (6.6 in) fi-5220C: 569 mm (22.4 in)	fi-5120C: 301 mm (11.8 in) fi-5220C: 302 mm (11.9 in)	fi-5120C: 158 mm (6.2 in) fi-5220C: 229 mm (9.0 in)
Installation Space (mm) (D x W x H)		Depth	Width	Height
		fi-5120C: 700 mm (27.6 in) fi-5220C: 800 mm (31.5 in)	fi-5120C: 400 mm (15.8 in) fi-5220C: 400 mm (15.8 in)	fi-5120C: 380 mm (15.0 in) fi-5220C: 450 mm (17.8 in)
Weight (kg)		fi-5120C: 3.8 (8.39lb) fi-5220C: 8.4 (18.54 lb)		
Input power	Voltage	AC100V ~ 120V, ±10% AC220V ~ 240V, ±10%		
	Phases	Single-phase		
	Frequency	50/60 ±3 Hz		
Power consumption		fi-5120C: 33 W or less fi-5220C: 38 W or less		

ATTENTION

Installation Space is the reference value of an installation space required to read A4 size documents.

Item		Specification	
Ambient condition	Device status	Operating	Not operating
	Temperature	5 to 35 ºC (41 to 95ºF)	-20 to 60 ºC (-4 to 140ºF)
	Humidity	20 to 80 %	8 to 95 %
Calorific value		fi-5120C: 28.38 kcal/H or less fi-5220C: 32.78 kcal/H or less	
Shipping Weight (kg)		fi-5120C: 5.3 (11.7 lb) fi-5220C: 11.9 (26.27 lb)	

All Rights Reserved Copyright 2006 © PFULIMITED

fi-5120C / fi-5220C Image Scanner Operator Guide

PREFACE | CHAPTER 1 | CHAPTER 2 | CHAPTER 3 | CHAPTER 4
CHAPTER 5 | CHAPTER 6 | CHAPTER 7 | CHAPTER 8 | APPENDIX

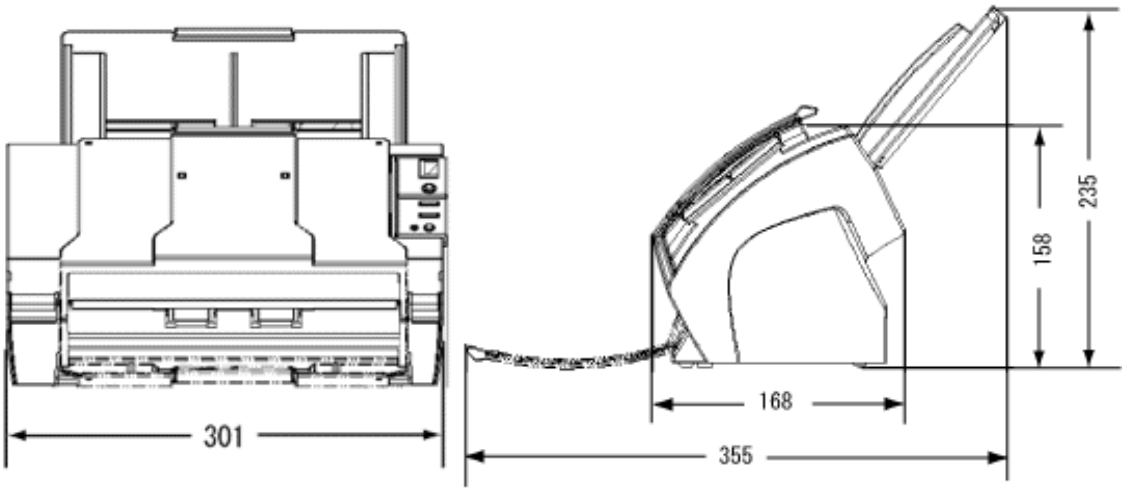
TROUBLE SHOOTING
CONTENTS MAP
TOP

8.3 External Dimensions

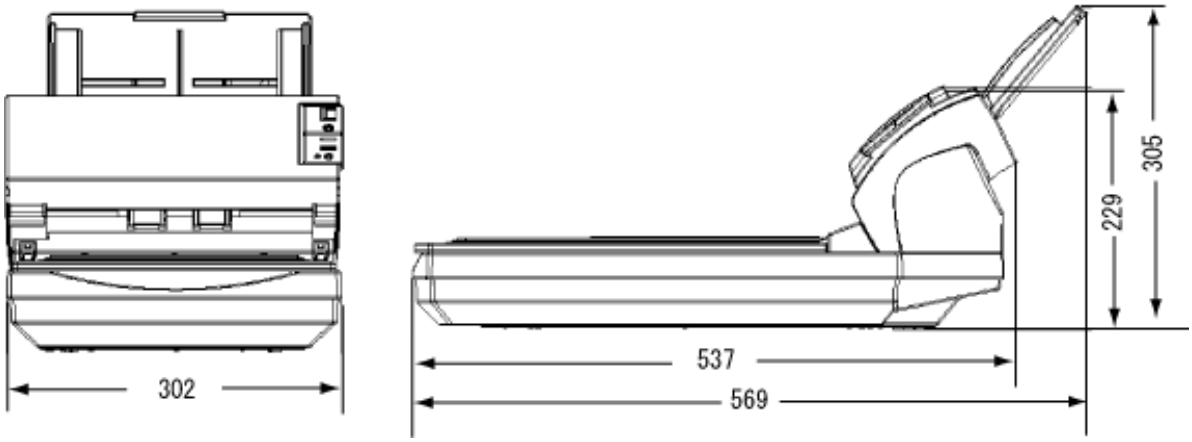
Prev Next

The following shows the external dimensions:

fi-5120C



fi-5220C



(Unit:mm)

All Rights Reserved Copyright 2006 © PFULIMITED

APPENDIX 1 Before using the [Scan] or the [Send to] button (1)

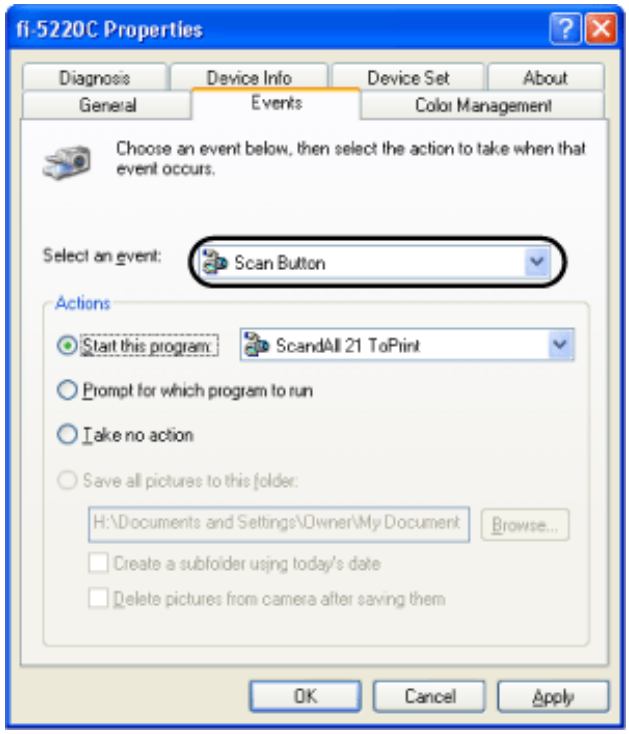
Prev Next

1 | 2 | 3

By setting the link of the application software to the [Scan] or [Send to] button, you can launch the linked application by simply pushing the button.

For Windows 98, Windows Me, Windows 2000, Windows XP

1. **Select [Start]-[Control Panel].**
2. **Select [Scanners and Cameras]-[Properties].**
3. **Select the [Events] tab.**
4. **Select an Event. For Windows XP, select the event for starting up any application from the [Select an event] menu.**



1 | 2 | 3

All Rights Reserved Copyright 2006 © PFULIMITED

APPENDIX 1 Before using the [Scan] or the [Send to] button (2)

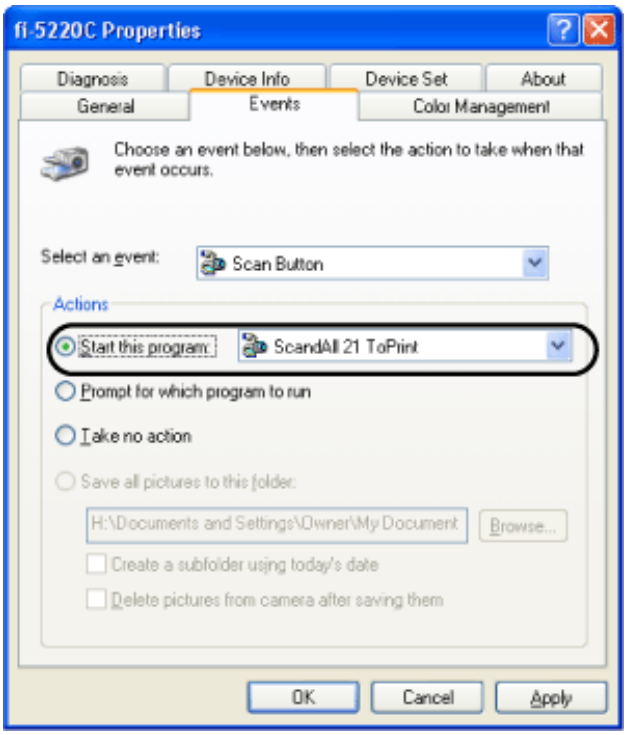
Prev Next

1 | 2 | 3

The events available for this function are:

- Scan button (When pushing the [Scan] button)
- Send to 1-9 (When pushing the [Send] to button)

5. Select the application with its process, excuted by the event. For Windows XP, click [Start this program] under [Actions] and select the application and process from the menu.



6. Click [OK] button.

HINT

The window and operations may vary depending on your OS.

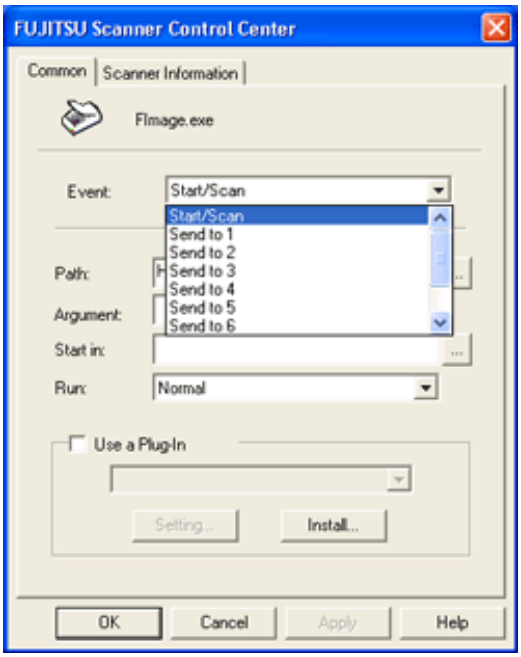
1 | 2 | 3

All Rights Reserved Copyright 2006 © PFULIMITED

For Windows 95, WindowsNT 4.0

1. **Right click the [FUJITSU Scanner Control Center] in the task tray and select [Option].**

2. **Select the event for starting up the application from the [Event] menu.**



The events available for this function are:

- Start/Scan button (When pushing the [Scan] button)
- Send to 1-9 (When pushing the [Send] to button)

3. **Click [...] button right to the entry field of [Path].**

4. **Click [OK].**

All Rights Reserved Copyright 2006 © PFULIMITED